Ver 1.1 1998. 08

# PMC-107L

# SERVICE MANUAL

*AEP Model*
*UK Model*
*Singapore Model*

| | | |
|---|---|---|
| CD Section | Model Name Using Similar Mechanism | CFD-222L |
| | CD Mechanism Type | KSM-213CDM |
| | Optical Pick-up Name | KSS-213C |
| TC Section | Model Name Using Similar Mechanism | NEW |
| | Tape Transport Mechanism Type | MF-107 |

## SPECIFICATIONS

**CD player section**

System
Compact disc digital audio system
Laser diode properties
Material: GaAlAs
Wave length: 780 nm
Emission duration: Continuous
Laser output: Less than 44.6 µW
(This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)
Spindle speed
200 r/min (rpm) to 500 r/min (rpm) (CLV)
Number of channels
2
Frequency response
20 - 20,000 Hz +1/–2 dB
Wow and flutter
Below measurable limit

**Radio section**

Frequency range

| | | |
|---|---|---|
| FM | AEP, UK, Singapore model | 87.6 - 107 MHz |
| | Italian model | 87.5 - 108 MHz |
| | East European model | 65 - 74 MHz<br>87.5 - 108 MHz |
| MW | | 531 - 1,602 kHz |
| LW | | 153 - 279 kHz |

IF
FM: 10.7 MHz
MW/LW: 450 kHz
Aerials
FM: Wire aerial
MW/LW: External aerial

**Cassette-corder section**

Recording system
4-track 2 channel stereo
Fast winding time
Approx. 120 s (sec.) with Sony cassette C-60
Frequency response
TYPE I (normal): 70 - 10,000 Hz

**General**

Speaker
Full range: 10 cm (4 in.) dia.,
3 ohms, cone type (2)
Outputs
Headphones jack (stereo minijack)
For 16 - 68 ohms impedance headphones
Maximum power output
5 W + 5 W
Power requirements
For personal component system:
230 V AC, 50 Hz
For remote control:
3 V DC, 2 R6 (size AA) batteries
Power consumption
AC 23 W

– Continued on next page –

## PERSONAL COMPONENT SYSTEM

MICROFILM

SONY®

Dimensions (incl. projecting parts)
Player : Approx. 160 × 245 × 215 mm (w/h/d)
(6 3/8 × 9 3/4 × 8 1/2 inches)
Speaker : Approx. 150 × 245 × 175 mm (w/h/d)
(6 × 9 3/4 × 7 inches)
Mass
Player : Approx. 2.6 kg (5 lb. 12 oz.)
Speaker : Approx. 1.1 kg (2 lb. 7 oz.)
Supplied accessories
Remote control (RMT-C107AD) (1)
(Except East European model)
Remote control (RMT-C107A) (1)
(East European model)
MW/LW loop aerial (1)
Conversion plug adaptor (1) (UK)

Design and specifications are subject to change without notice.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the bottom exterior.

**CAUTION**

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

### Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

### Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

### NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

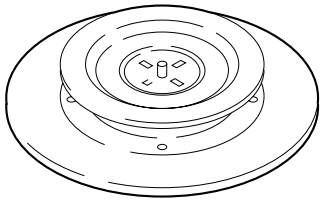
The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

### NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

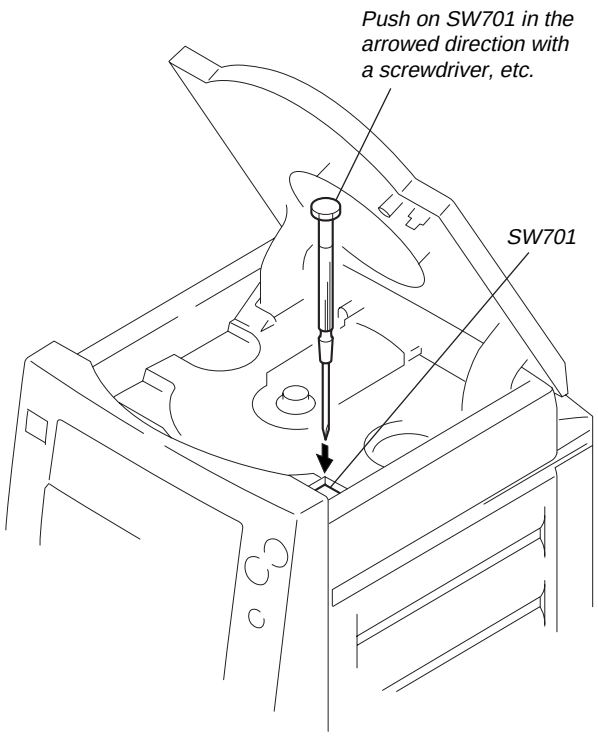
### CHUCK PLATE JIG ON REPAIRING

On repairing CD section, playing a disc without the CD lid, use Chuck Plate jig.
• Part No. of Chuck Plate jig : X-4918-255-1



### LASER DIODE AND FOCUS SEARCH OPERATION CHECK

1. Open the CD lid.
2. Push on PUSH SWITCH (SW701) as following figure.
3. Confirm the laser diode emission while observing the objecting lens. When there is no emission, Auto Power Control circuit or Optical Pick-up is broken.
   Objective lens moves up and down once for the focus search.




**SAFETY-RELATED COMPONENT WARNING!!**

**COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

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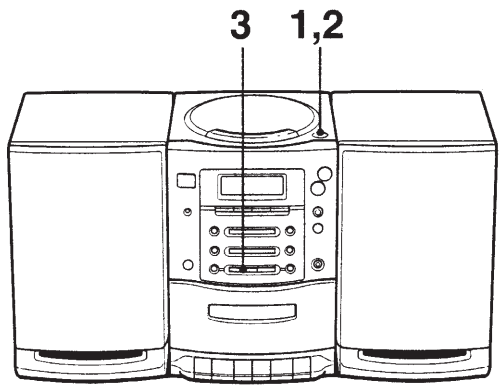
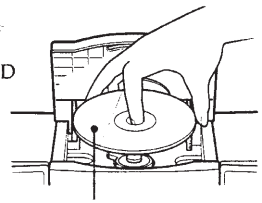
# Playing a CD




For hookup instructions, see pages 23 - 24.

**1** PUSH OPEN/CLOSE ⏏

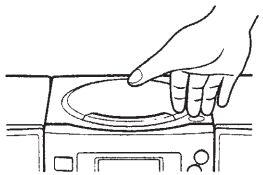
Press ⏏PUSH OPEN/CLOSE down to open the CD compartment and place the CD on the CD compartment.



With the label side up

**2** PUSH OPEN/CLOSE ⏏

Close the lid of the CD compartment.



**3** ►II ■

Press ►II (direct power-on).

The player plays all the tracks once.

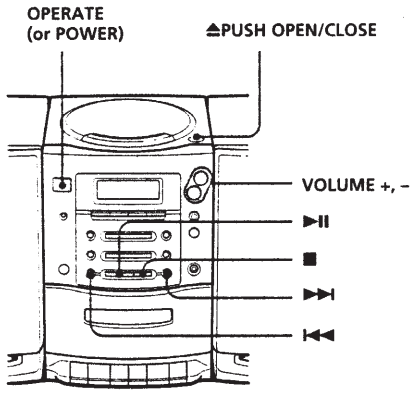
Display

Track number Playing time

**Tip**

Next time you want to listen to a CD, just press ►II. The player turns on automatically and starts playing the CD.

**Use these buttons for additional operations**



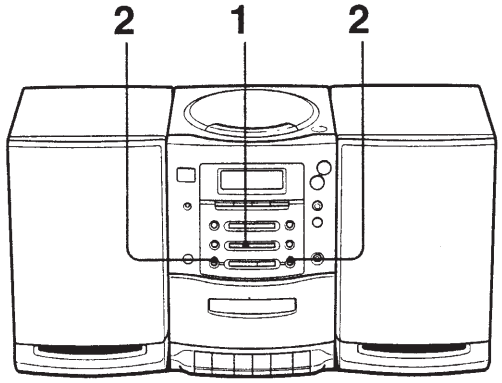

| To | Press |
|---|---|
| adjust the volume | VOLUME +, – (VOL +, – on the remote) |
| stop playback | ■ |
| pause playback | ►II (II on the remote) Press the button again to resume play after pause. |
| go to the next track | ►►I |
| go back to the previous track | I◄◄ |
| remove the CD | ⏏PUSH OPEN/CLOSE |
| turn on/off the player | OPERATE (or POWER, see page 2) |



SECTION 1
GENERAL

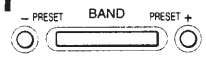
This section is extracted from instruction manual.

# Listening to the radio



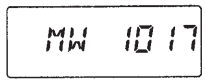

For hookup instructions, see pages 23 - 24.

**1**




Press BAND until the band you want appears in the display (direct power-on).

**Display**



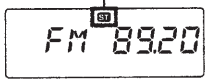

**2**

Hold down TUNING/TIME SET + or – until the frequency digits begin to change in the display.

The player automatically scans the radio frequencies and stops when it finds a clear station.

If you can't tune in a station, press the button repeatedly to change the frequency step by step.

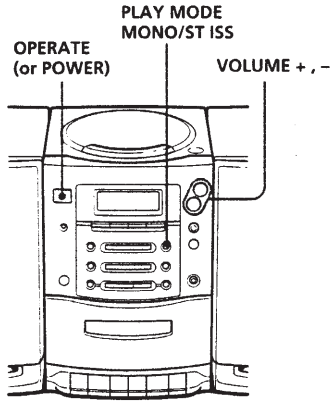
**Indicates an FM stereo broadcast.**




**Tips**

- If the FM broadcast is noisy, press PLAY MODE•MONO/ST ISS until "Mono" appears in the display and the radio will play in monaural.
- Next time you want to listen to the radio, just press BAND. The player turns on automatically and starts playing the previous station.

**Use these buttons for additional operations**




| To | Press |
|---|---|
| adjust the volume | VOLUME +, – (VOL +, – on the remote) |
| turn on/off the radio | OPERATE (or POWER, see page 2) |

**To improve broadcast reception**

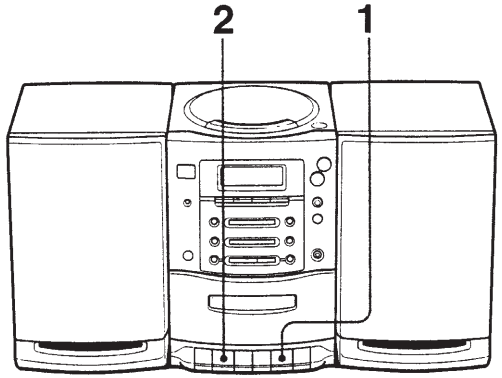
**FM**

Keep the FM wire aerial as horizontal as possible (see page 24).

**MW/LW**

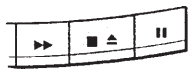
Keep the MW/LW loop aerial (supplied) away as far as possible from the player and then reorient the aerial (see page 24).

# Playing a tape



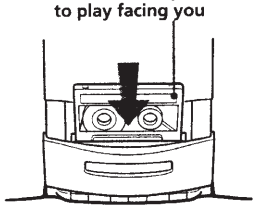

For hookup instructions, see pages 23 - 24.

**1**

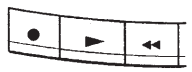


Press ■⏏ to open the tape compartment and insert a recorded tape. Use TYPE I (normal) tape only. Close the compartment.

**With the side you want to play facing you**



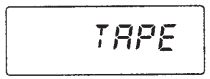
**2**



Press ►.

The player turns on (direct power-on) and starts playing.

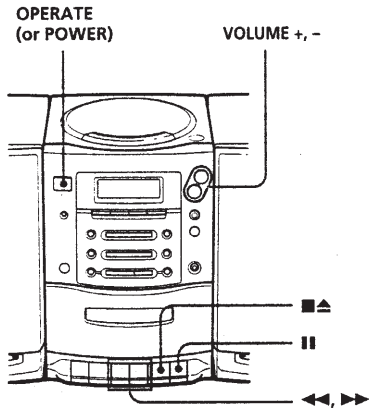
**Display**




**Tip**

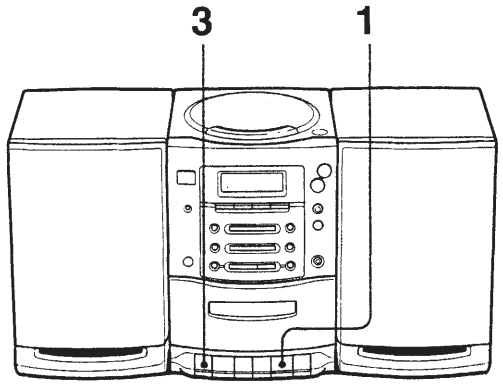
Next time you want to listen to a tape, just press ►. The player turns on automatically and starts playing the tape.

**Use these buttons for additional operations**



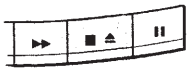

| To | Press |
|---|---|
| adjust the volume | VOLUME +, – (VOL +, – on the remote) |
| stop playback | ■⏏ |
| fast-forward or rewind the tape | ►►, ◄◄ |
| pause playback | II<br>Press the button again to resume play after pause. |
| eject the cassette | ■⏏ |
| turn on/off the player | OPERATE (or POWER, see page 2) |

# Recording on a tape



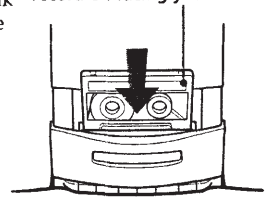

For hookup instructions, see pages 23 - 24.

**1**



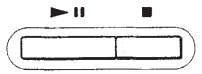
Press ■⏏ to open the tape compartment and insert a blank tape. Use TYPE I (normal) tape only.

**With the side you want to record on facing you**

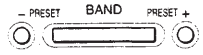


**2**

Select the program source you want to record.

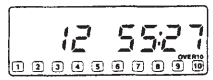


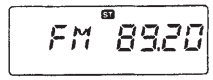
To record from the CD player, insert a CD (see page 4) and press ■ on the CD section.




To record from the radio, press BAND and tune in the station you want (see page 6).

**Display**

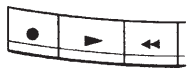







**3**

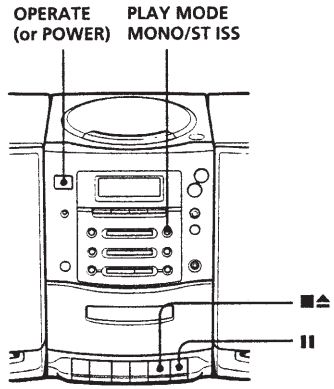


Press ● to start recording.
(► is depressed automatically.)

**Tips**

- Adjusting the volume or the audio emphasis (see page 25) will not affect the recording level.
- If the MW/LW program makes a whistling sound after you've pressed ● in step 3, press PLAY MODE• MONO/ST ISS repeatedly until the noise is at a minimum.
- To erase a recording, proceed as follows:
  1 Insert the tape whose recording you want to erase into the tape compartment.
  2 Turn on the power.
  3 Press FUNCTION repeatedly until "TAPE" appears in the display.
  4 Press ●.

**Use these buttons for additional operations**




| To | Press |
|---|---|
| stop recording | ■⏏ |
| pause recording | II<br>Press the button again to resume recording. |
| turn on/off the player | OPERATE (or POWER, see page 2) |

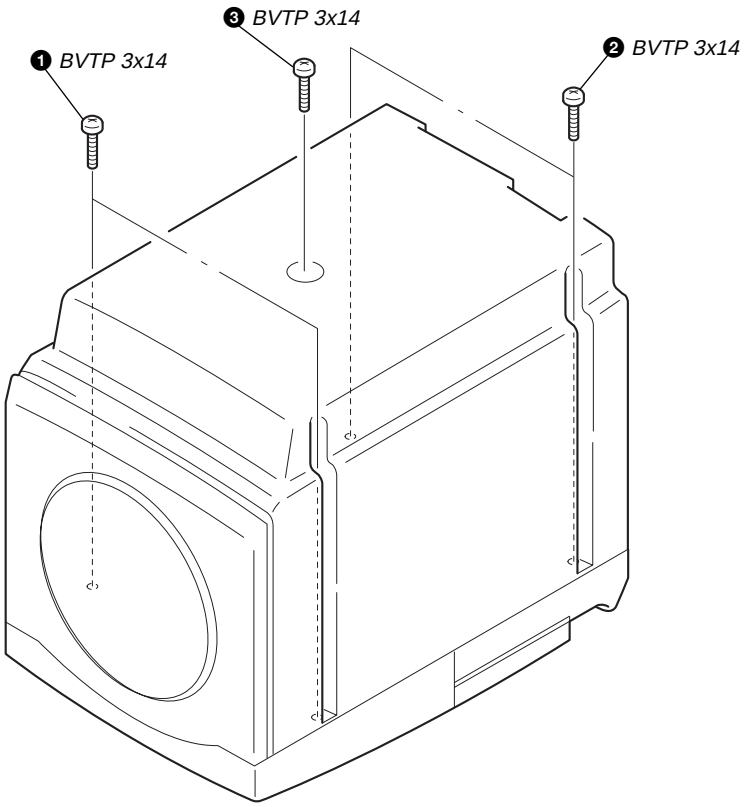
# SECTION 2
# DISASSEMBLY

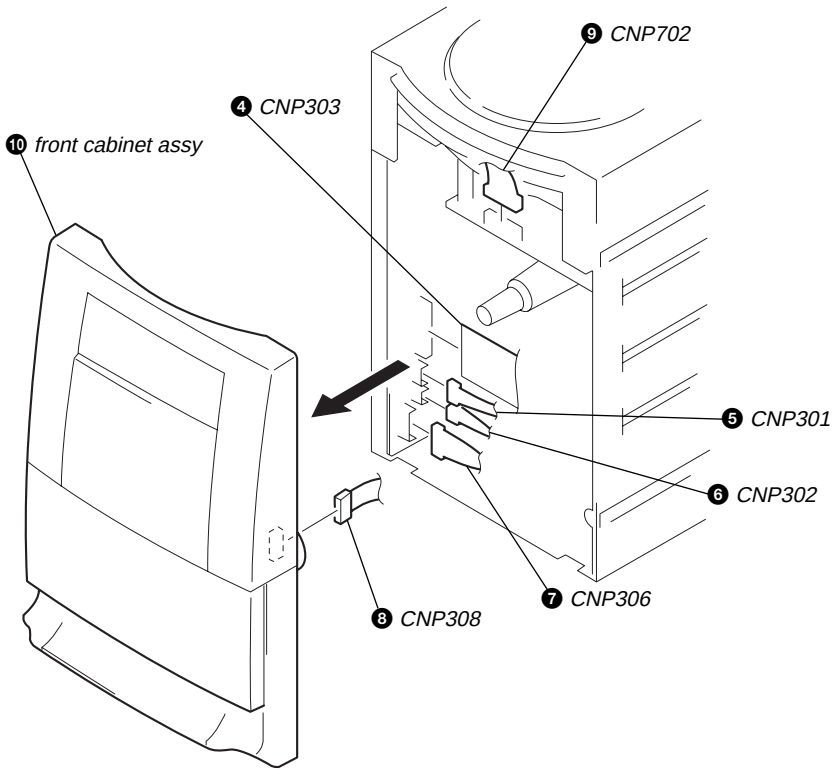
• The equipment can be removed using the following procedure.

Set ➡ Front cabinet assy ➡ CD chassis assy ➡ Main board
Power board
CD board ➡ Optical pick-up
Mechanism deck block
Control board

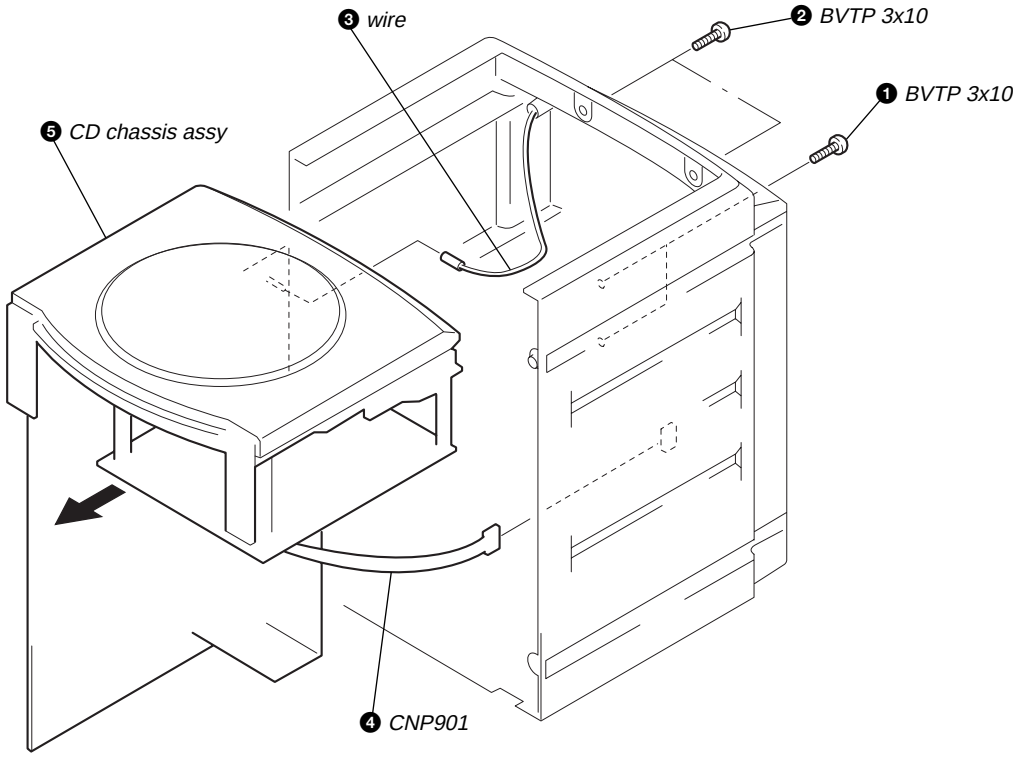
**Note :** Follow the disassembly procedure in the numerical order given.

## 2-1. FRONT CABINET ASSY

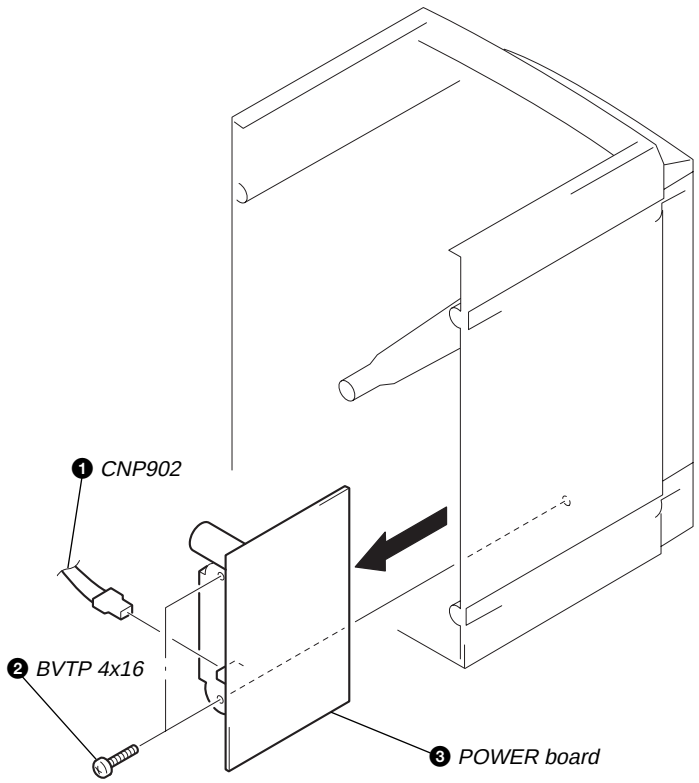


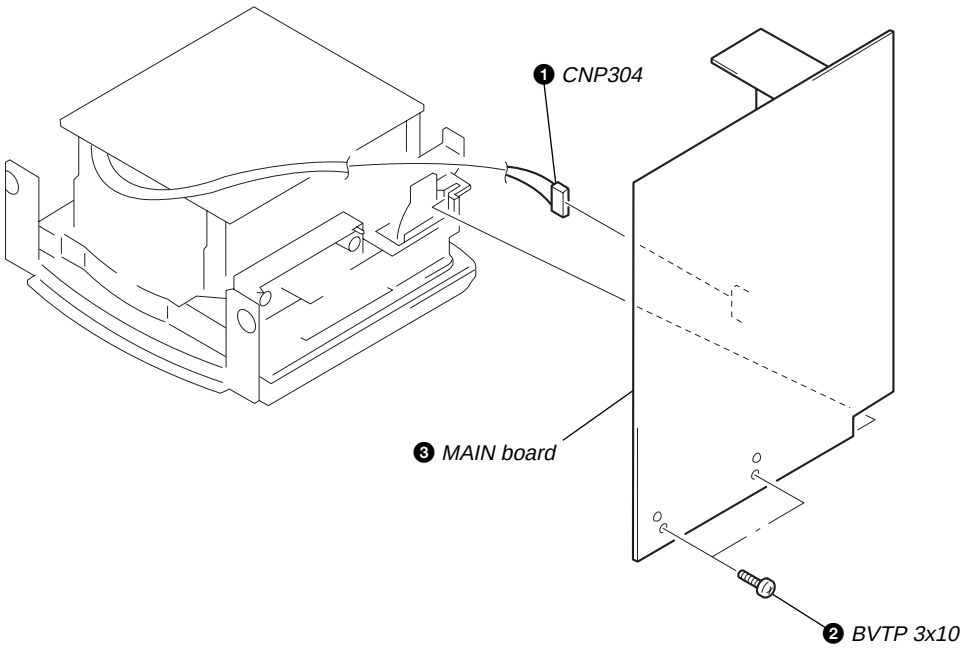
## 2-2. CD CHASSIS ASSY



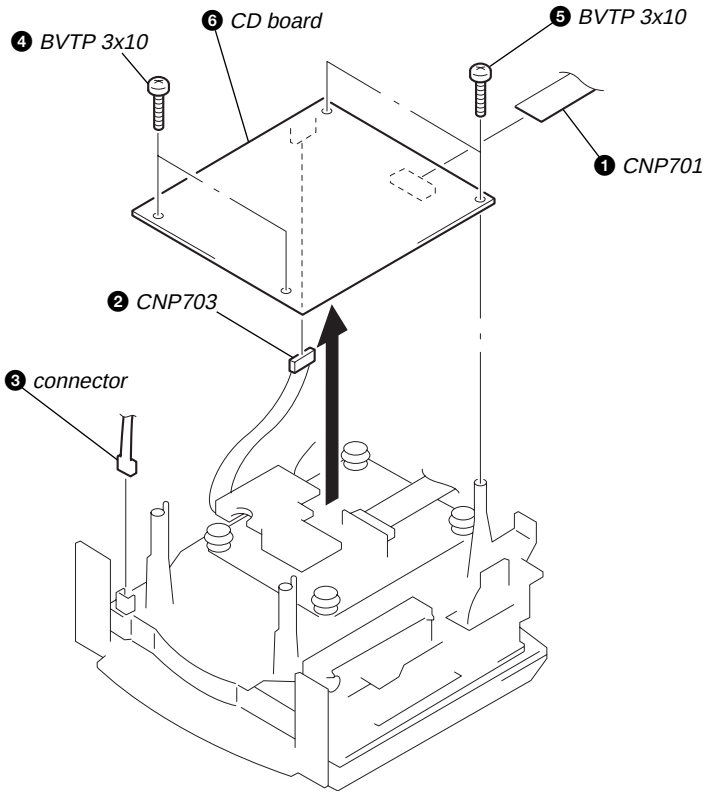

## 2-3. POWER BOARD



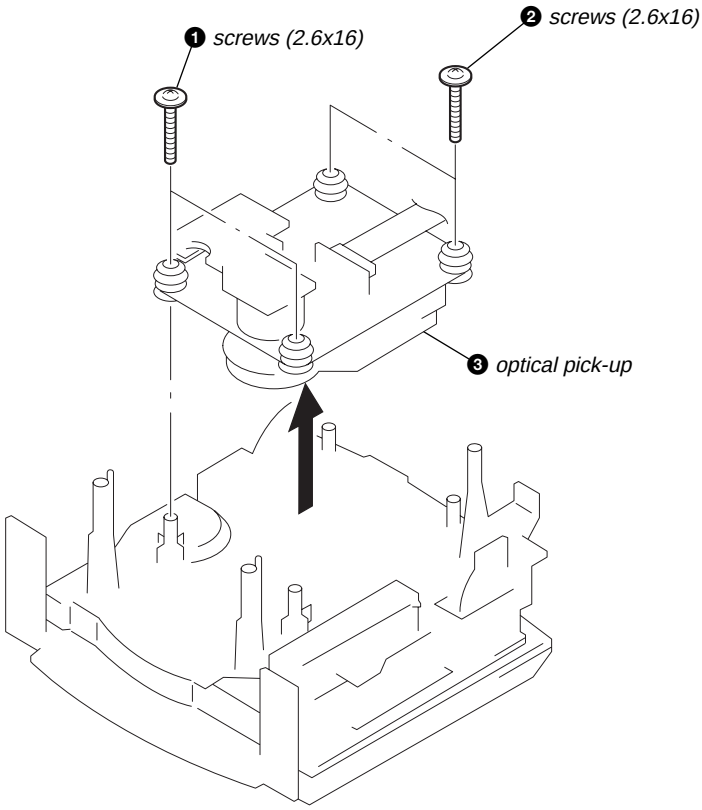
## 2-4. MAIN BOARD



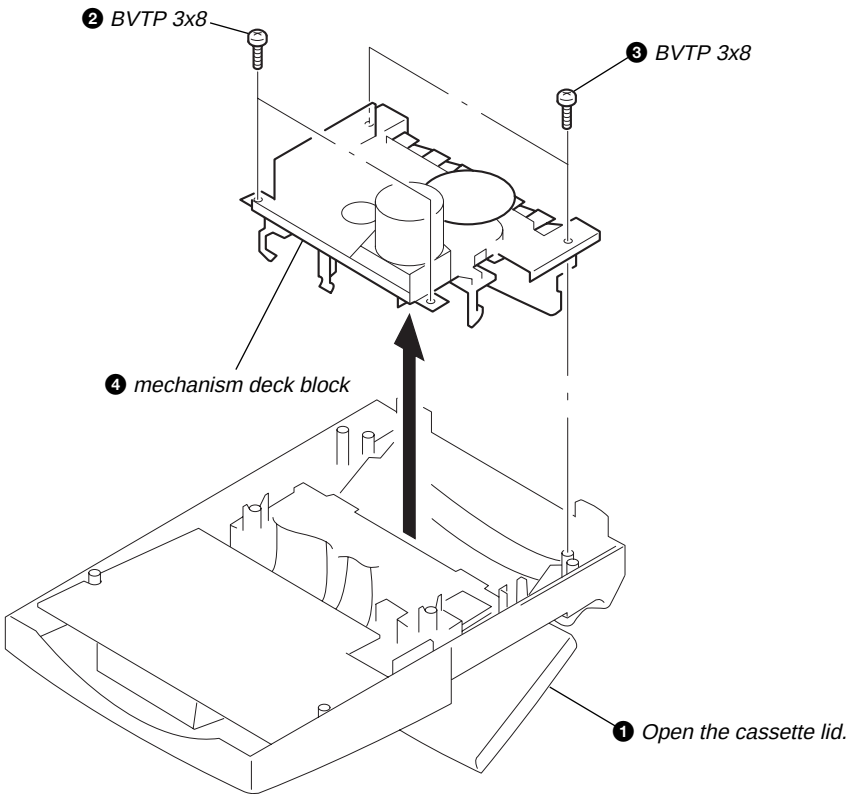

## 2-5. CD BOARD



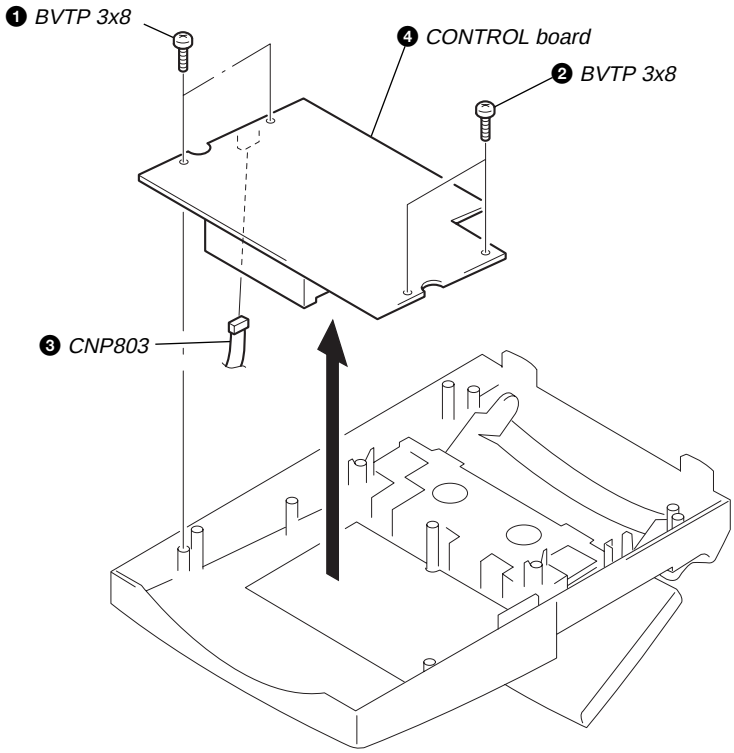
## 2-6. OPTICAL PICK-UP




## 2-7. MECHANISM DECK BLOCK



## 2-8. CONTROL BOARD



# SECTION 3
# MECHANICAL ADJUSTMENTS

## PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback head, erase head, capstan, pinch roller, rubber belts, idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head magnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

### Torque Measurement

| Mode | Torque meter | Meter reading |
|---|---|---|
| FWD | CQ-102C | 30 – 70 g • cm (0.42 – 0.97 oz • inch) |
| FWD Back Tension | CQ-102C | 1.5 – 5.5 g • cm (0.021 – 0.076 oz • inch) |
| FF | CQ-201B | more than 60 g • cm (more than 0.83 oz • inch) |
| REW | CQ-201B | more than 60 g • cm (more than 0.83 oz • inch) |

### Tape Tension Measurement

| Mode | Tension meter | Meter Reading |
|---|---|---|
| FWD | CQ-403A | more than 100 g (more than 3.53 oz) |

# SECTION 4
# ELECTRICAL ADJUSTMENTS

**TAPE SECTION** **0 dB = 0.775 V**

**• Standard Output Level**

| Output terminal | HP OUT |
|---|---|
| load impedance | 32 Ω |
| output signal level | 0.25 V (–10 dB) |

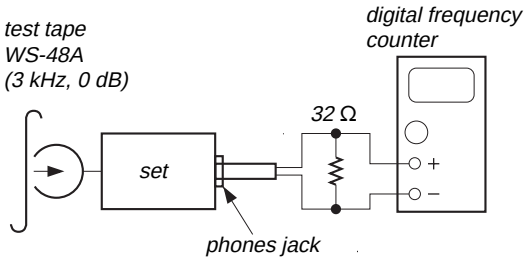
**• Test Tape**

| Type | Signal | Used for |
|---|---|---|
| WS-48A | 3 kHz, 0 dB | tape speed adjustment |

### Tape Speed Adjustment

**Procedure:**

Mode: playback



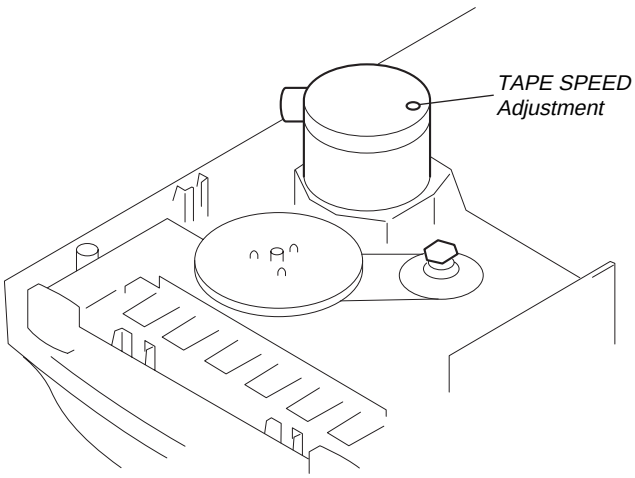

1. Make sure that the value indicated on the frequency counter falls into the specification.
2. If out of specification, adjust so that the value on the frequency counter is 3 kHz.

**Adjustment Value:**

| Digital frequency counter |
|---|
| 2,985 to 3,015 Hz |

Adjust so that the frequency at the beginning and that at the end of tape winding are between 2,955 to 3,045 Hz.

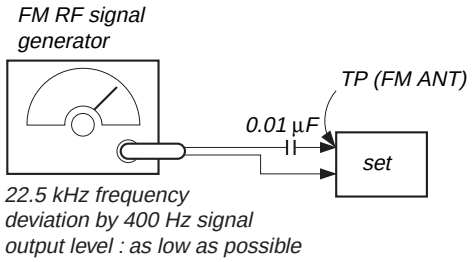
**Adjustment Location:**



## TUNER SECTION | 0 dB = 1 μV

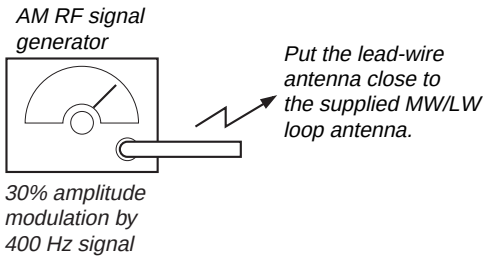
- **FM Section**

**Setting:**
BAND switch: FM

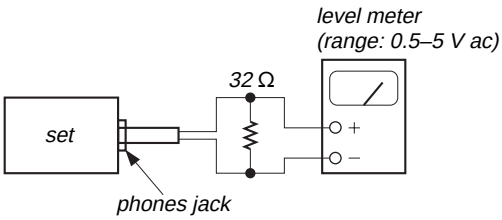



- **MW/LW Section**

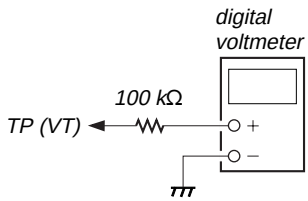
**Setting:**
BAND switch: MW or LW


AM RF signal generator
Put the lead-wire antenna close to the supplied MW/LW loop antenna.
30% amplitude modulation by 400 Hz signal

- **Connecting Level Meter (FM, MW and LW)**




- **Connecting Digital Voltmeter (FM, MW and LW)**




- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

| FM FREQUENCY COVERAGE ADJUSTMENT | | |
|---|---|---|
| Frequency Display | 87.5 MHz (65 MHz) | 108 MHz |
| Reading on Digital voltmeter | 1.8 ± 0.2 V (0.9 ± 0.2 V) | 5.6 ± 0.2V (7.3 ± 0.2 V) |
| Adjustment Part | L6 | <confirmation> |

| FM TRACKING ADJUSTMENT | |
|---|---|
| Adjust for a maximum reading on level meter. | |
| L5 | CT1 |
| 87.5 MHz (68 MHz) | 108 MHz (102 MHz) |

| MW FREQUENCY COVERAGE ADJUSTMENT | | |
|---|---|---|
| Frequency Display | 531 kHz | 1,611 kHz |
| Reading on Digital voltmeter | 0.9 ± 0.1 V | 5.6 ± 0.2V |
| Adjustment Part | L2 | CT2 |

| MW TRACKING ADJUSTMENT | |
|---|---|
| Adjust for a maximum reading on level meter. | |
| L9 | CT4 |
| 621 kHz | 1,404 kHz |

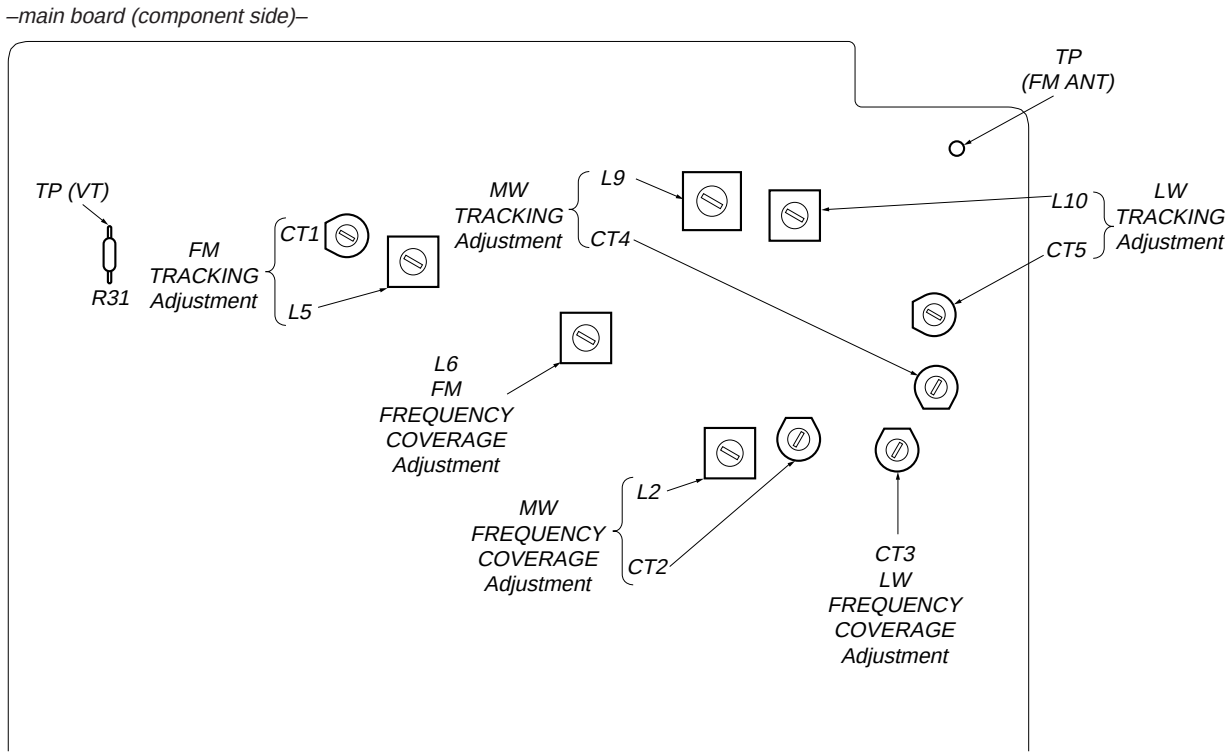
| LW FREQUENCY COVERAGE ADJUSTMENT | | |
|---|---|---|
| Frequency Display | 153 kHz | 279 kHz |
| Reading on Digital voltmeter | 0.6 ± 0.1 V | 5.3 ± 0.2V |
| Adjustment Part | CT3 | <confirmation> |

| LW TRACKING ADJUSTMENT | |
|---|---|
| Adjust for a maximum reading on level meter. | |
| L10 | CT5 |
| 162 kHz | 261 kHz |

( ) : East European model

**Adjustment Location:** See page 15.

**Adjustment Location:** main board



## CD SECTION

### Notes on Adjustment

1. Perform Traverse adjustment in test mode.
   After adjustment, be sure to release test mode.
2. Perform adjustments in the order given.
3. Use the disc (YEDS-18, Part No. 3-702-101-01) only when so indicated.
4. Short the both sides of R714 on the CD board for stop operation of anti-shock circuit. (See page 19.)

• Switch position
FUNCTION switch : CD

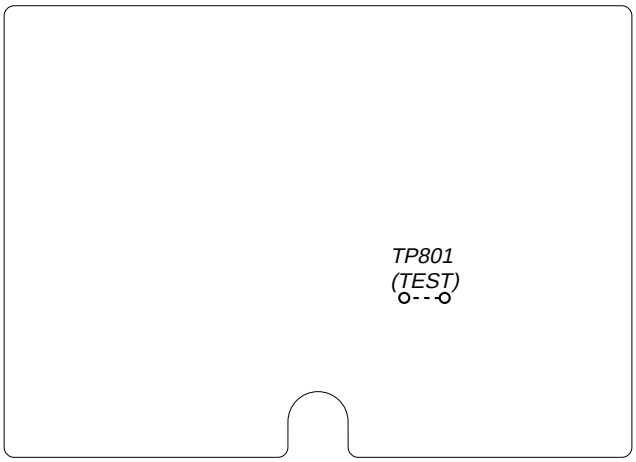
### • In case of Test Mode

1. Short the solder bridge the TP801 (TEST) on the key board.
2. Insert the AC power plug.

### • Release the Test Mode

Release the shorted solder bridge the TP801 (TEST), the test mode is release.

*–key board (conductor side) –*




### Before Adjustment

Put the set into test mode and perform the following checks. Repair if there are any problems.

### • Sled Motor Check

Press the ± , ≠ buttons and confirm that the optical pick-up moves smoothly from the innermost to outermost circumference and back smoothly and with no catching or abnormal noises.

± : Optical pick-up moves to the outer circumference
≠ : Optical pick-up moves to the inner circumference

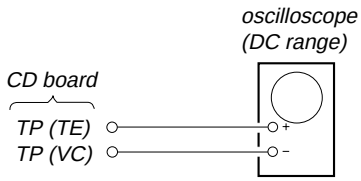
### • Focus Search Check

1. Push the ▷II button. (Focus search operation is performed continuously.)
2. Look at the optical pick-up objective lens and confirm the it moves up and down smoothly, with no catching or abnormal noises.
3. Push the π button.
   Confirm that focus search operation stops. If it does not, push the π button again longer.

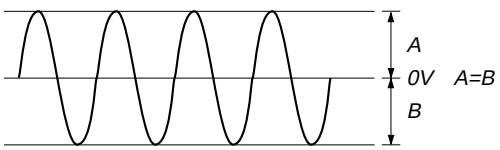
### Traverse Adjustment

This adjustment is to be done when the optical pick-up block is replaced.

**Procedure:**




1. Connect the oscilloscope between TP (TE) and TP (VC).
2. Put the set into test mode.
3. Push the CD lid to open and insert disc (YEDS-18).
4. Close the CD lid.
5. Press the ± and ≠ buttons to move the optical pick-up to the center.
6. Push the ▷II button.
7. Push the π button.
8. Push the ▷II button.
9. Adjust RV702 so that the oscilloscope traverse waveform is symmetrical, as shown in the figure below.
10. Release test mode after adjustment is completed.

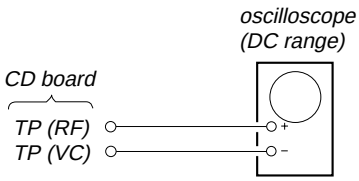



**Adjustment Location :** See page 19.

### Focus Bias Adjustment

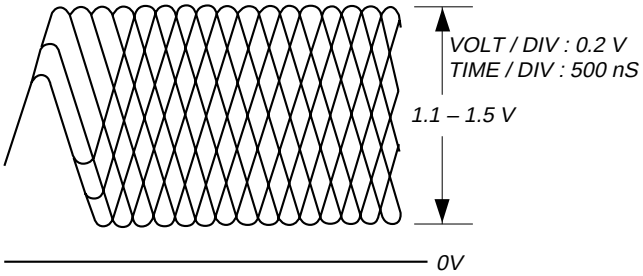
This adjustment is to be done when the optical pick-up block is replaced.

**Procedure :**




1. Connect the oscilloscope between TP (RF) and TP (VC).
2. Insert disc (YEDS-18) and push the ▷II button.
3. Adjust RV701 so that the oscilloscope waveform is maximum as shown in the figure below (eye pattern).

• RF signal reference waveform (eye pattern)




When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

**Adjustment Location :** See page 19.

## REFERENCE

### Focus/Tracking Gain Adjustment

A frequency response analyzer is necessary in order to perform this adjustment exactly.
However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.
Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.
However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain raised, the noise when the 2-axis device operates increases.
- When gain is lowered, it is more susceptible to machanical shock and skipping occurs more easily.

When gain adjustment is off, the symptoms below appear.

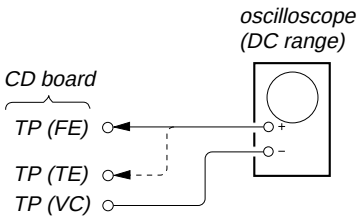
| Symptoms \ Gain | Focus | Tracking |
|---|---|---|
| • The time until music starts becomes longer for π ➔ ▷II on automatic selection. (≠ , ± buttons pressed.) (Normally, takes about 2 seconds.) | low | low or high |
| • Music does not start and disc continues to rotate for π ➔ ▷II or automatic selection. (≠ , ± buttons pressed.) | – | low |
| • Sound is interrupted during PLAY. Or time counter display stops progressing. | – | low |
| • More noise during 2-axis device operation. | high | high |

The following is a simple adjustment method.

**–Simple Adjustment–**

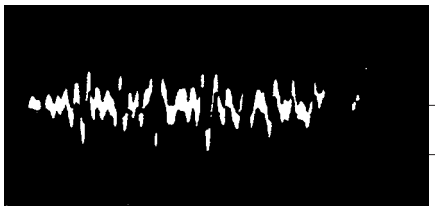
**Note :** Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.

**Procedure:**



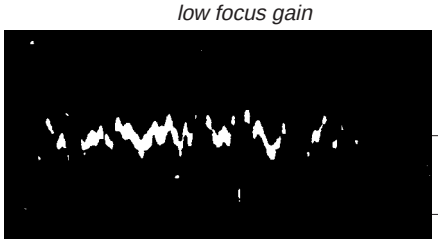

1. Keep the set horizontal.
   If the set not horizontal, this adjustment cannot be performed due to the gravity against the 2-axis device.
2. Insert disc (YEDS-18) and push the ▷II button.
3. Connect the oscilloscope between TP (FE) and TP (VC).
4. Adjustment RV704 so that the waveform is as shown in the figure below. (focus gain adjustment)

• Correct Example




• Incorrect Examples (DC level changes more than on adjusted waveform)

*low focus gain*



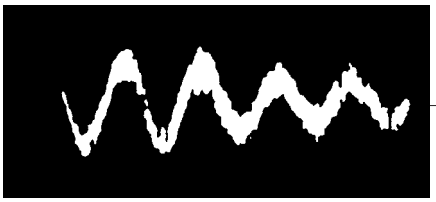

*high focus gain*

5. Connect the osilloscope between TP (TE) and TP (VC).
6. Adjust RV703 so that the waveform is as shown in the figure below. (tracking gain adjustment)

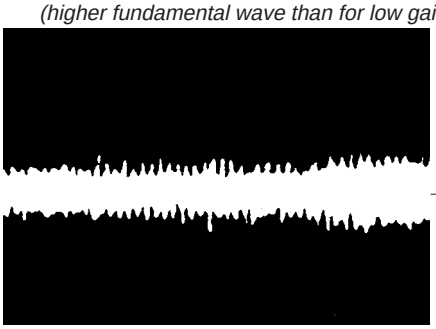
• Correct Example

• Incorrect Examples (fundamental wave appears)

*low tracking gain*



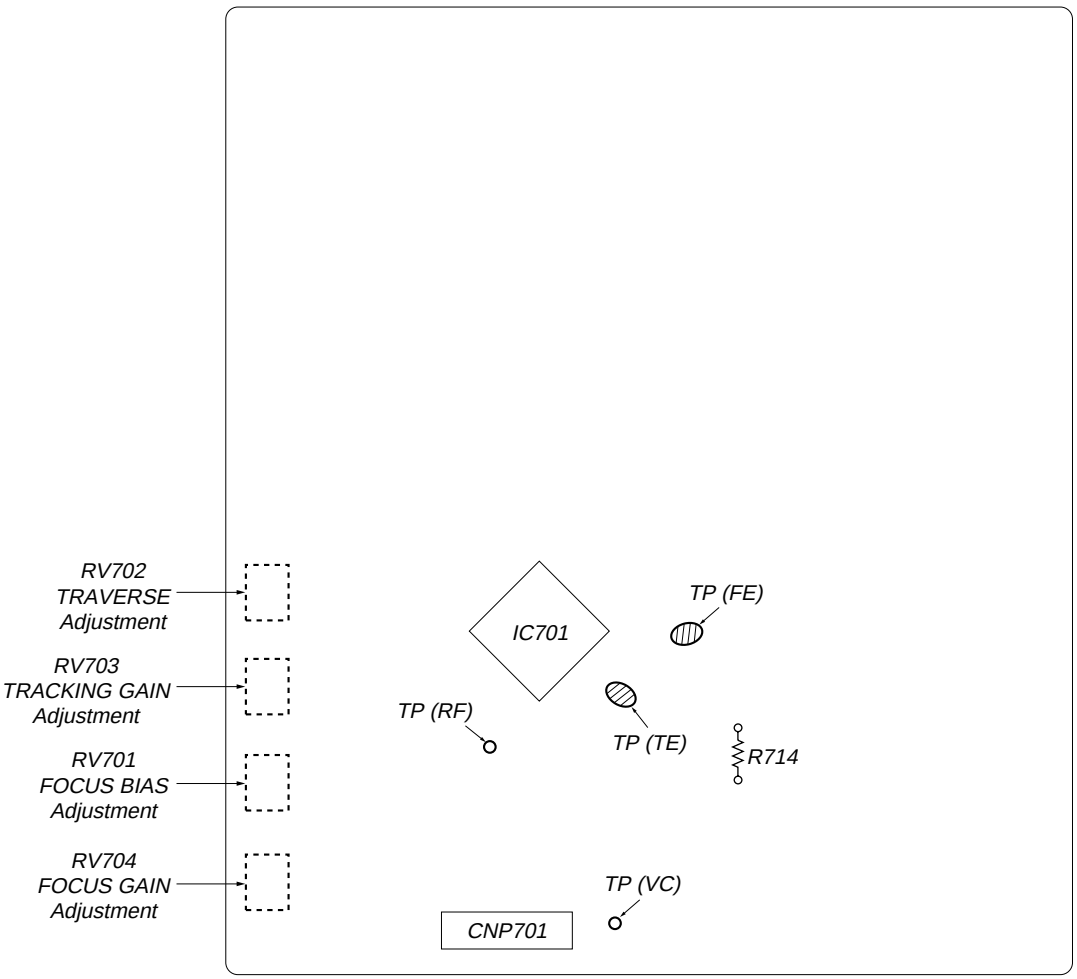

*high tracking gain*
*(higher fundamental wave than for low gain)*




**Adjustment Location :** See page 19.

**Adjustment Location:** CD board

*–CD board (conductor side)–*



# SECTION 5
# DIAGRAMS

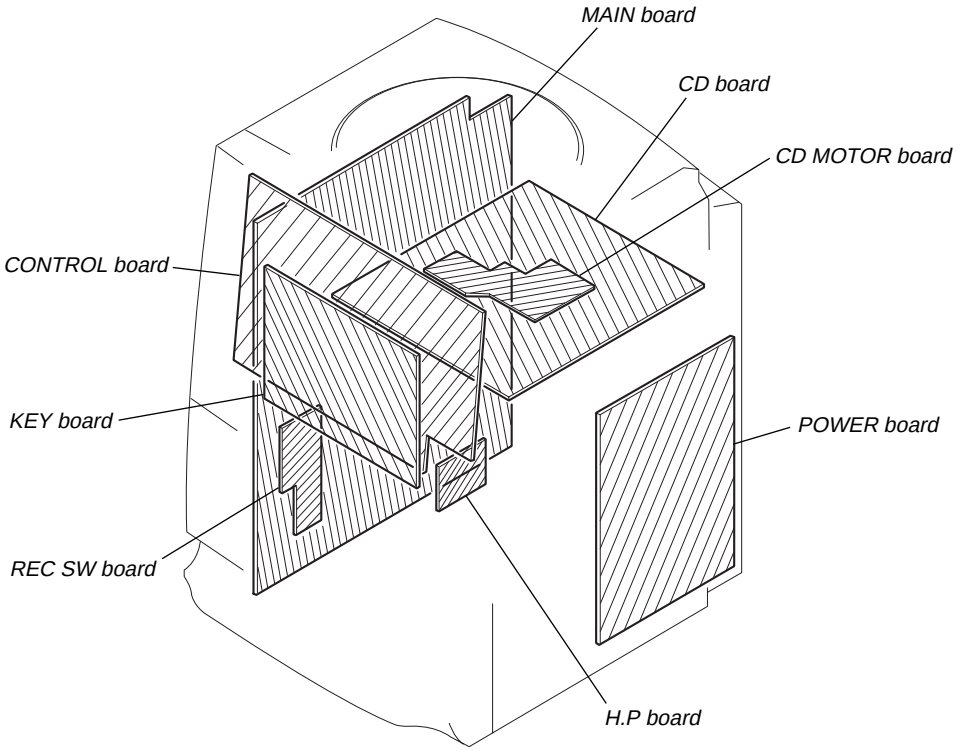
## 5-1. IC PIN DESCRIPTION

**• IC801 CXP50716-082Q (SYSTEM CONTROL/LCD DRIVE)**

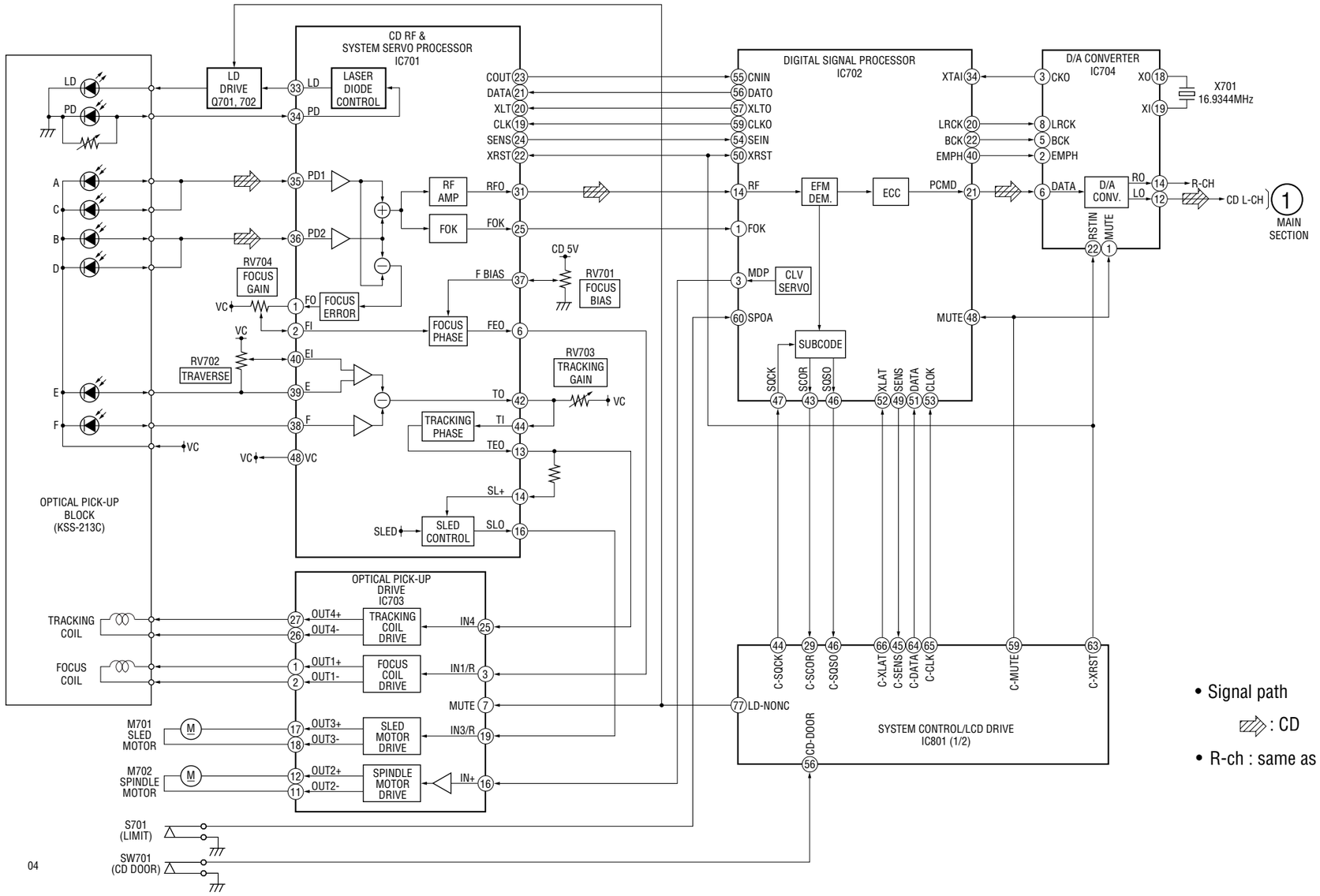
| Pin No. | Pin Name | I/O | Pin Description |
|---|---|---|---|
| 1 – 19 | SEG0 – 18 | O | LCD drive segment output |
| 20 – 23 | COM0 – 3 | O | LCD drive common output |
| 24 – 26 | VLC-3 – 1 | O | LCD drive voltage terminal |
| 27 | VL | O | LCD drive port ON/OFF output |
| 28 | RMC | I | Sircs receiver input |
| 29 | C-SCOR | I | CD SCOR input |
| 30 | $\overline{TX}$ | O | Oscillation output (32.768 kHz) |
| 31 | TXE | I | Oscillation input (32.768 kHz) |
| 32 | $\overline{RST}$ | I | System reset input |
| 33 | N.C. | — | Not used. |
| 34 | VDD | — | Power supply pin (+5 V) |
| 35 – 38 | KEY1 – 4 | I | Key input |
| 39 | INIT | O | Tuner select initial setting output |
| 40 | VER | I | Tuner destination band select input |
| 41 | 9K/10K | I | Tuner band 9k/10k select input |
| 42 | REG-CHK | I | Voltage detection input |
| 43 | N.C. | — | Not used. |
| 44 | C-SQCK | O | CD Sub-Q read clock output |
| 45 | C-SENS | I | CD SENSE input |
| 46 | C-SQSO | I | CD Sub-Q data input |
| 47 | A-MUTE | O | Audio mute output |
| 48 | V-DATA | O | Volume serial data output |
| 49 | V-CLK | O | Volume serial clock output |
| 50 | V-CE | O | Volume serial chip enable output |
| 51 | REG-CON | O | Regulator control output |
| 52 | TAPE | O | Tape control output |
| 53 | $\overline{RADIO}$ | O | Radio control output |
| 54 | $\overline{CD}$ | O | CD control output |
| 55 | REC | I | Tape record signal input |
| 56 | CD-DOOR | I | CD door detection input |
| 57 | R-COUNT | I | Tuner PLL data input |
| 58 | R-ST | O | Stereo indicator output |
| 59 | C-MUTE | O | CD mute output |
| 60 | PA-CON | O | Power-amplifier control output |
| 61 | WP | I | Wake-up input |
| 62 | $\overline{T\text{-}PLAY}$ | I | Tape play switch input |
| 63 | C-XRST | O | CD reset output |
| 64 | C-DATA | O | CD serial data output |
| 65 | C-CLK | O | CD serial clock output |
| 66 | C-XLAT | O | CD serial latch output |
| 67 | R-MUTE | O | Tuner mute output |
| 68 | R-DATA | O | Tuner PLL data output |
| 69 | R-CLK | O | Tuner PLL clock output |
| 70 | R-CE | O | Tuner PLL chip enable output |
| 71 | VSS | — | GND |
| 72 | XTAL | O | Oscillation output (4.19 MHz) |
| 73 | N.C. | — | Not used. |
| 74 | EXTAL | I | Oscillation input (4.19 MHz) |

| Pin No. | Pin Name | I/O | Pin Description |
|---|---|---|---|
| 75 | VREF | — | Reference voltage terminal (Not used in this set.) |
| 76 | SHIFT-CLK | O | Shift clock output |
| 77 | LD-NONC | O | CD lazer diode control output |
| 78 – 80 | SEG19 – 21 | O | LCD drive segment output |

## 5-2. CIRCUIT BOARDS LOCATION

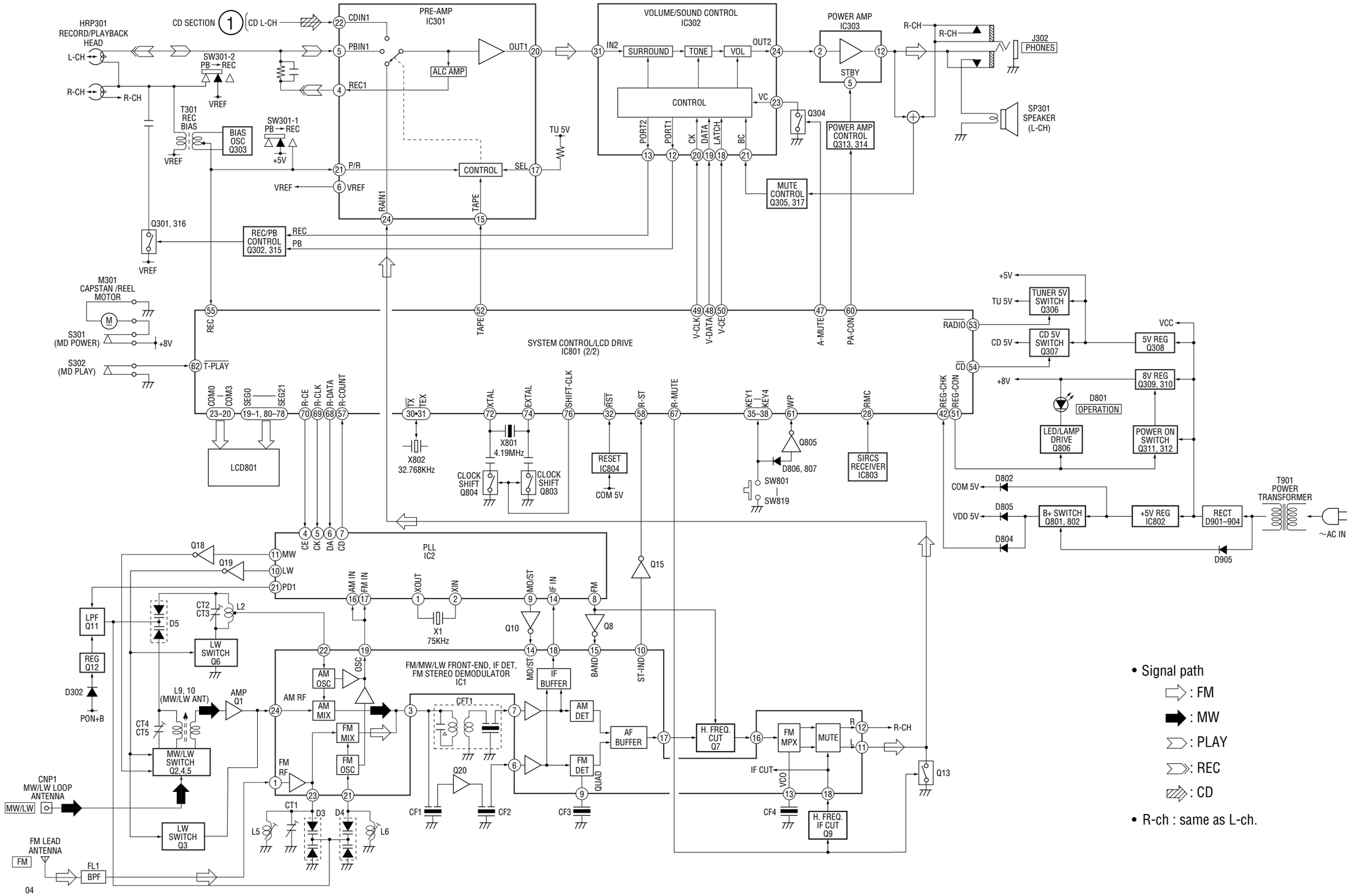


## 5-3. BLOCK DIAGRAM — CD SECTION —

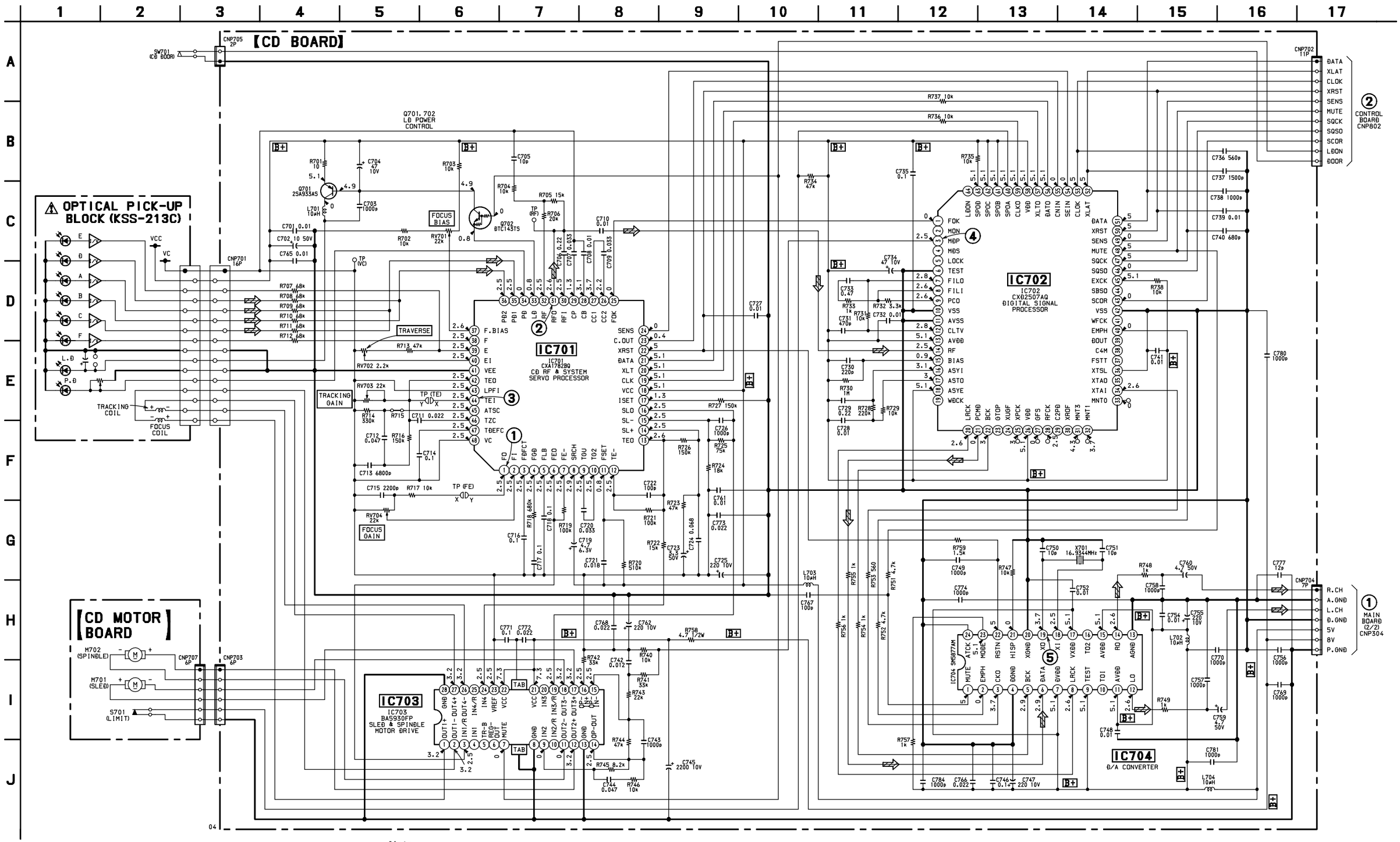



- Signal path
  : CD
- R-ch : same as L-ch.

## 5-4. BLOCK DIAGRAM — MAIN SECTION —



## 5-6. SCHEMATIC DIAGRAM — CD SECTION — • Refer to page 42 for IC Block Diagrams.



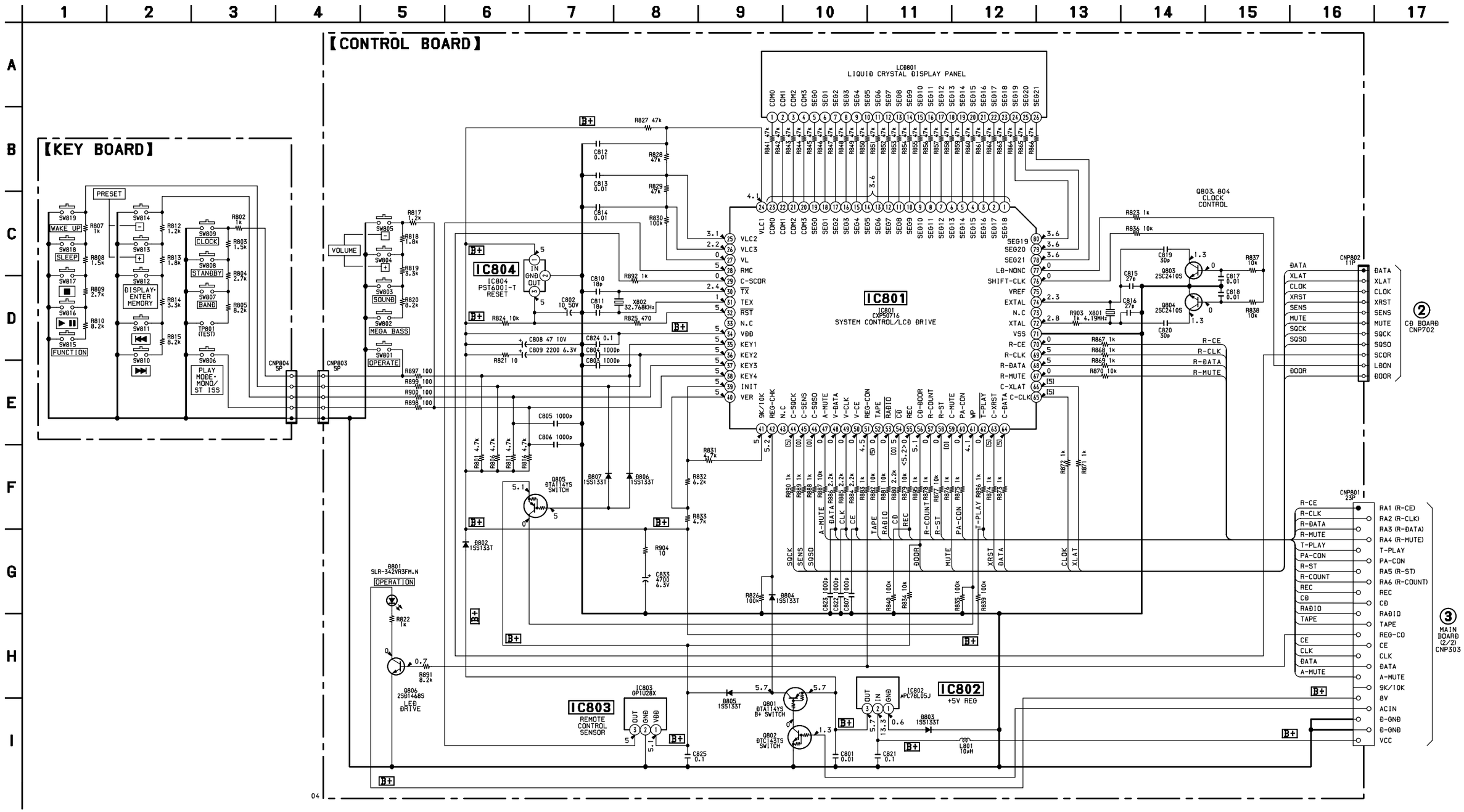

**Note:**

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.

**Note:** The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- B+ : B+ Line.
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : CD STOP
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD

## 5-8. SCHEMATIC DIAGRAM — PANEL SECTION —



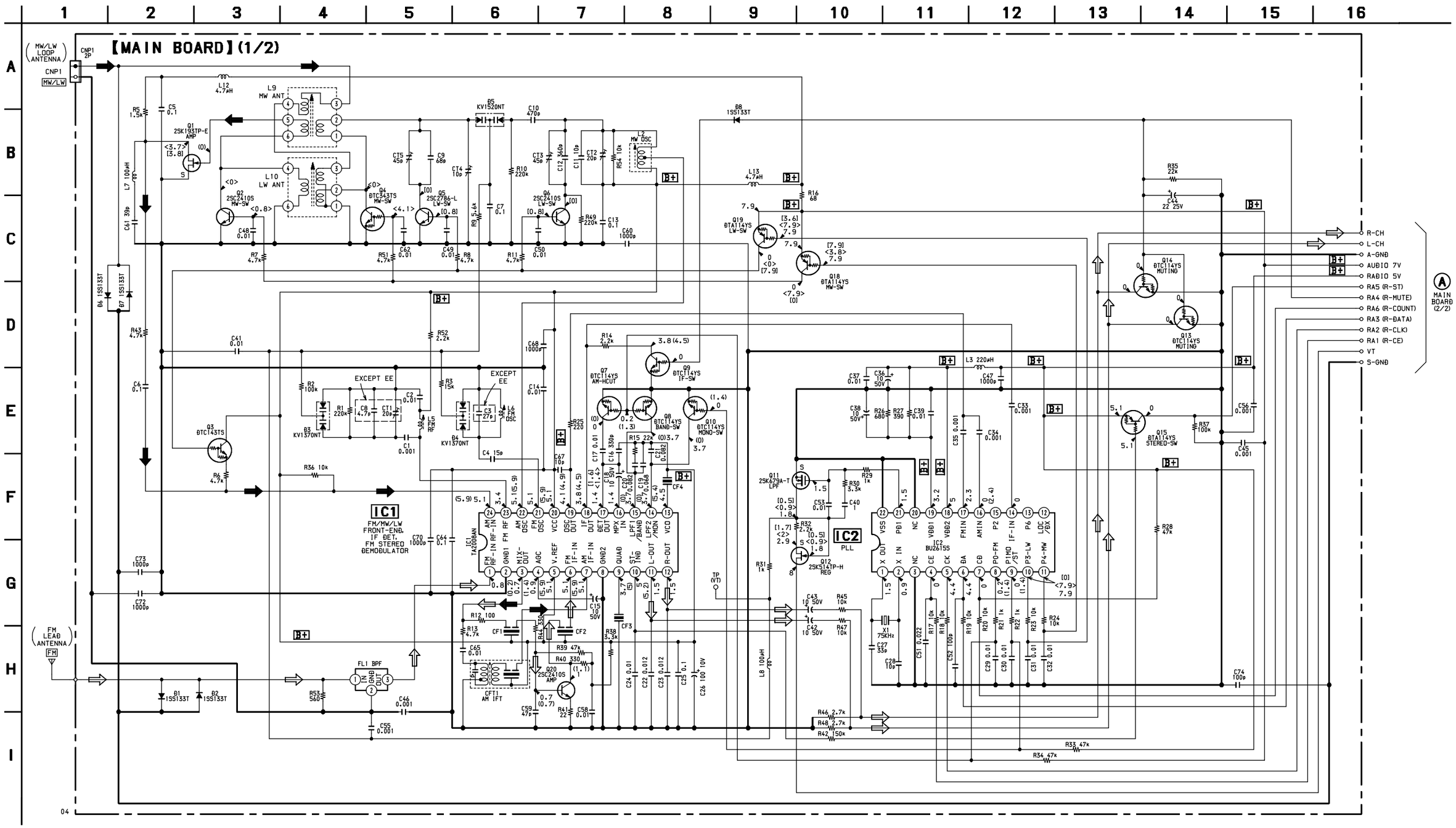

**Note on Schematic Diagram:**

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : panel designation.
- B + : B+ Line.
- Voltage is dc with respect to ground under no-signal (detuned) condition.

no mark : FM
( ) : PB
< > : REC
[ ] : CD

- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Abbreviation
  EE : East European model.

## 5-10. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) — • Refer to page 41 for IC Block Diagrams.



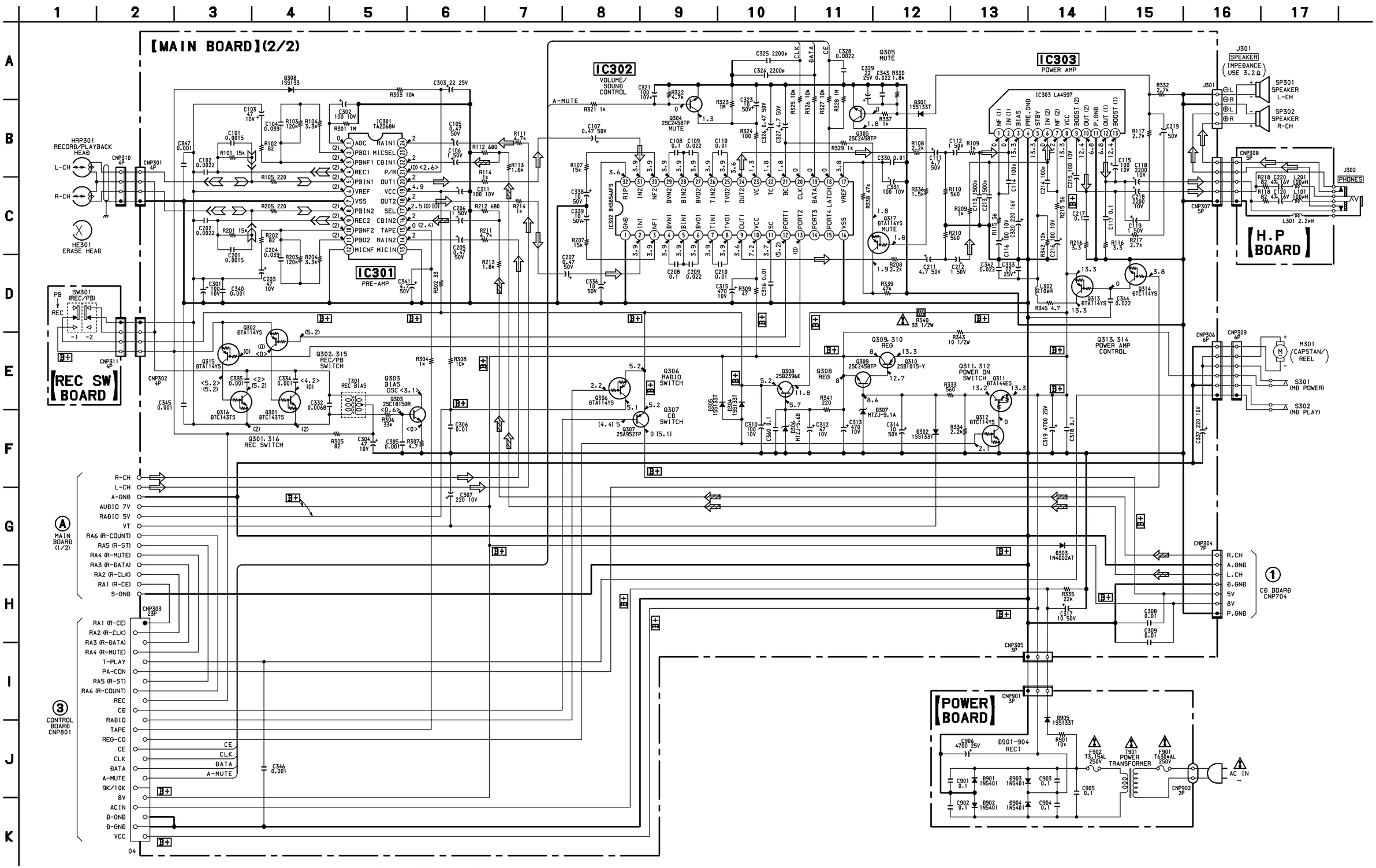

**Note on Schematic Diagram:**

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- B+ : B+ Line.
- Voltage is dc with respect to ground under no-signal (detuned) condition.

no mark : FM
( ) : MW/LW
< > : MW
[ ] : LW

- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
  ➡ : MW
- Abbreviation
  EE : East European model.

## 5-11. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 41 for IC Block Diagrams.




**Note on Schematic Diagram:**

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- : nonflammable resistor.
- : panel designation.

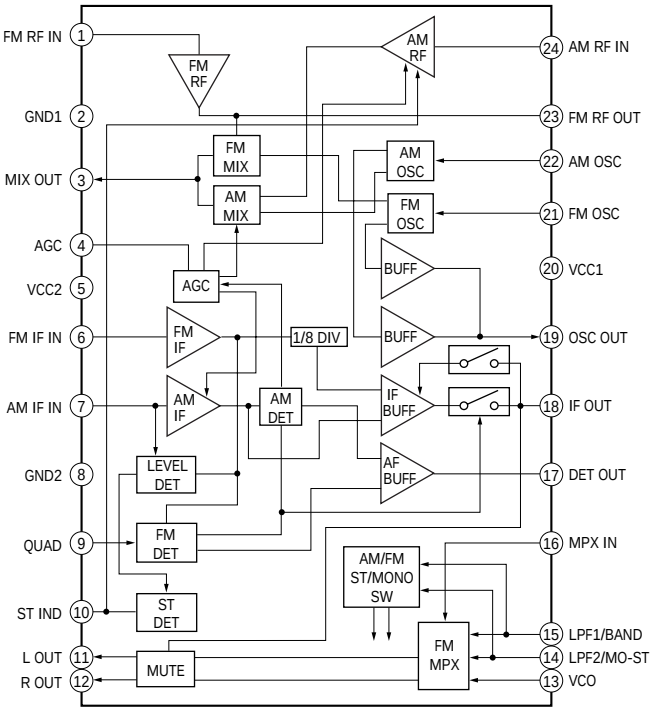
**Note:** The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- B+ : B+ Line.
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : PB
  < > : REC
  [ ] : CD
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.

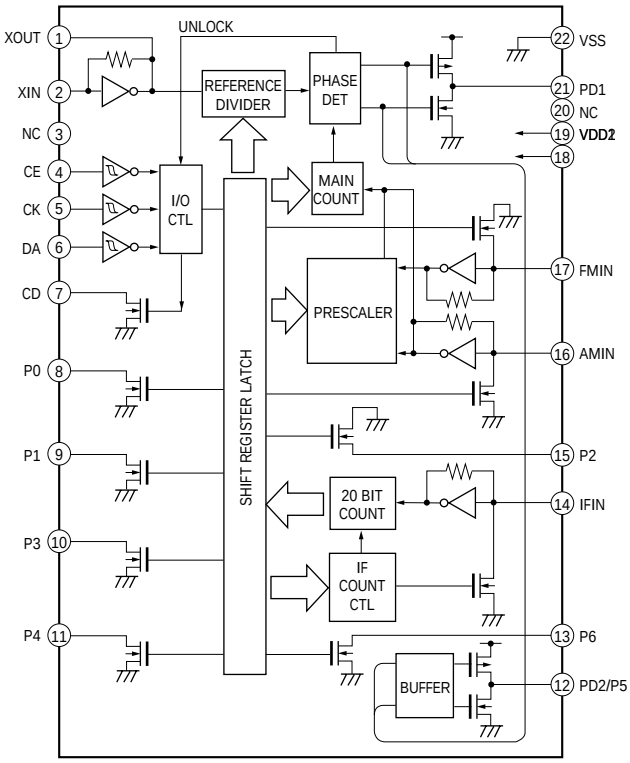
- Signal path.
  : FM
  : PB
  : REC
  : CD
- Abbreviation
  EE : East European model.

**• IC Block Diagrams**

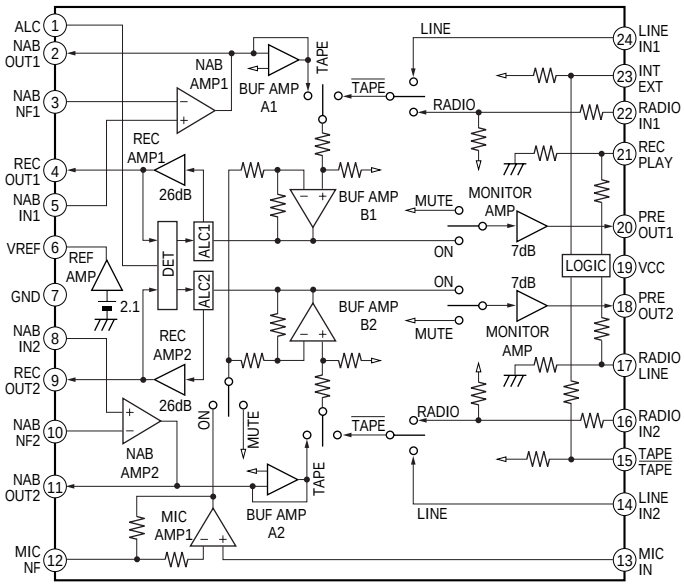
**IC1 TA2008AN**



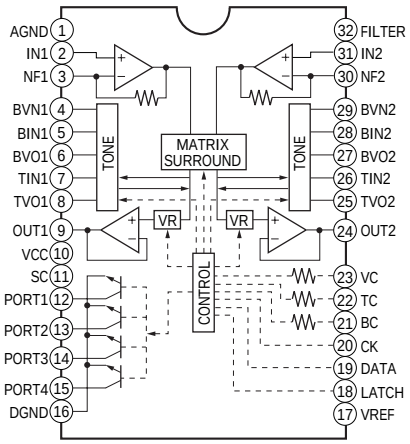

**IC2 BU2615S**



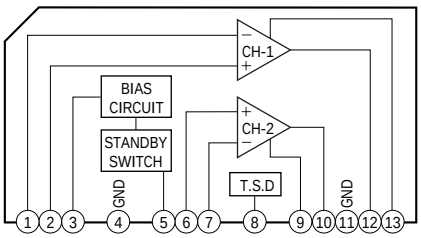

**IC301 TA2068N**



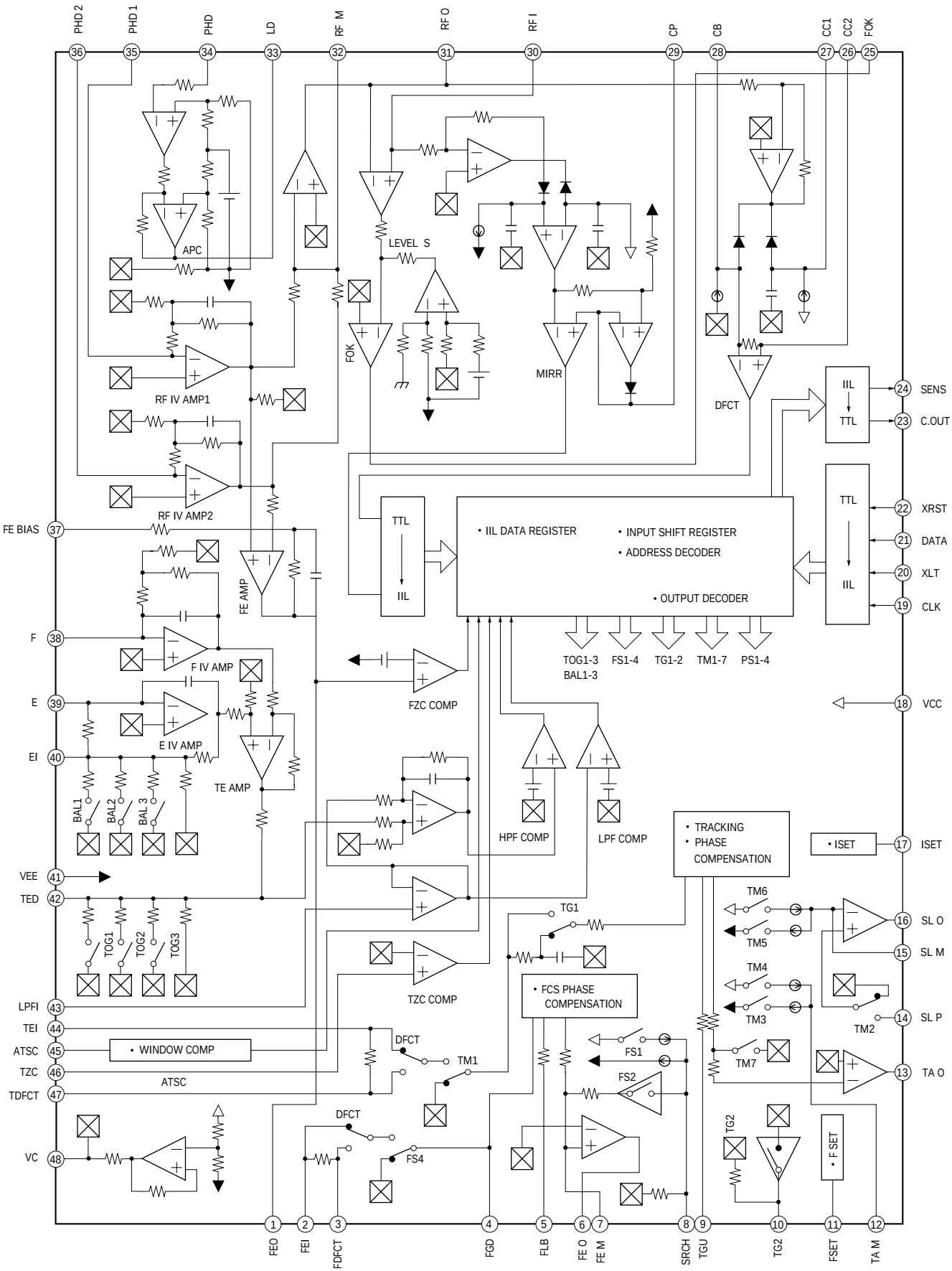

**IC302 BH3854AFS**



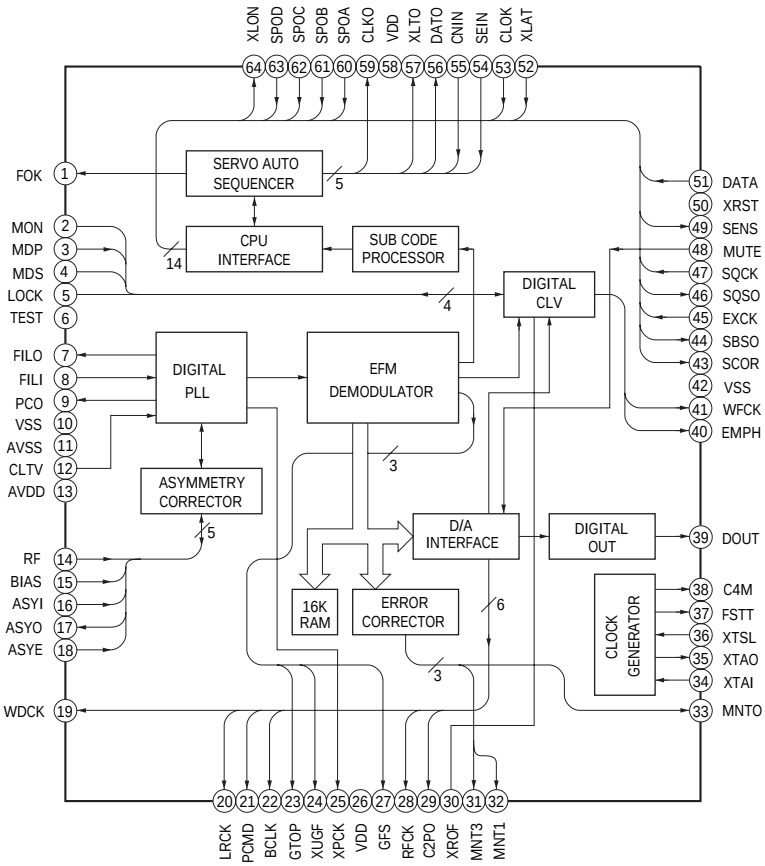

**IC303 LA4597**



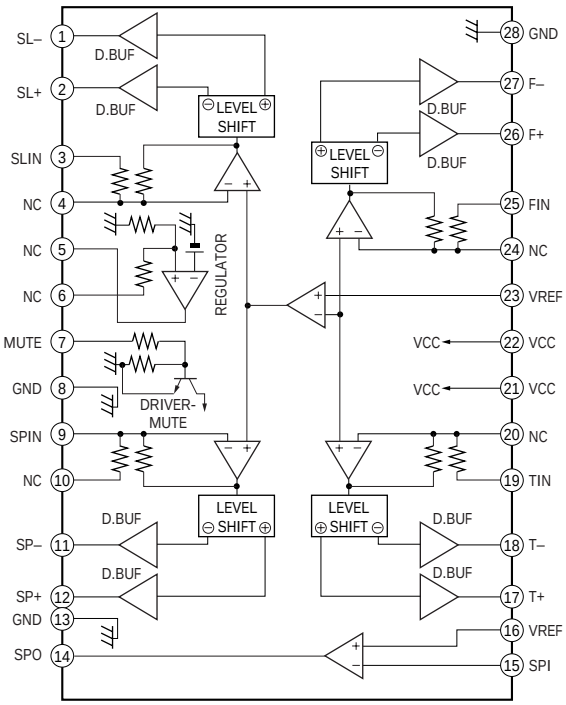
**IC701 CXA1782BQ**



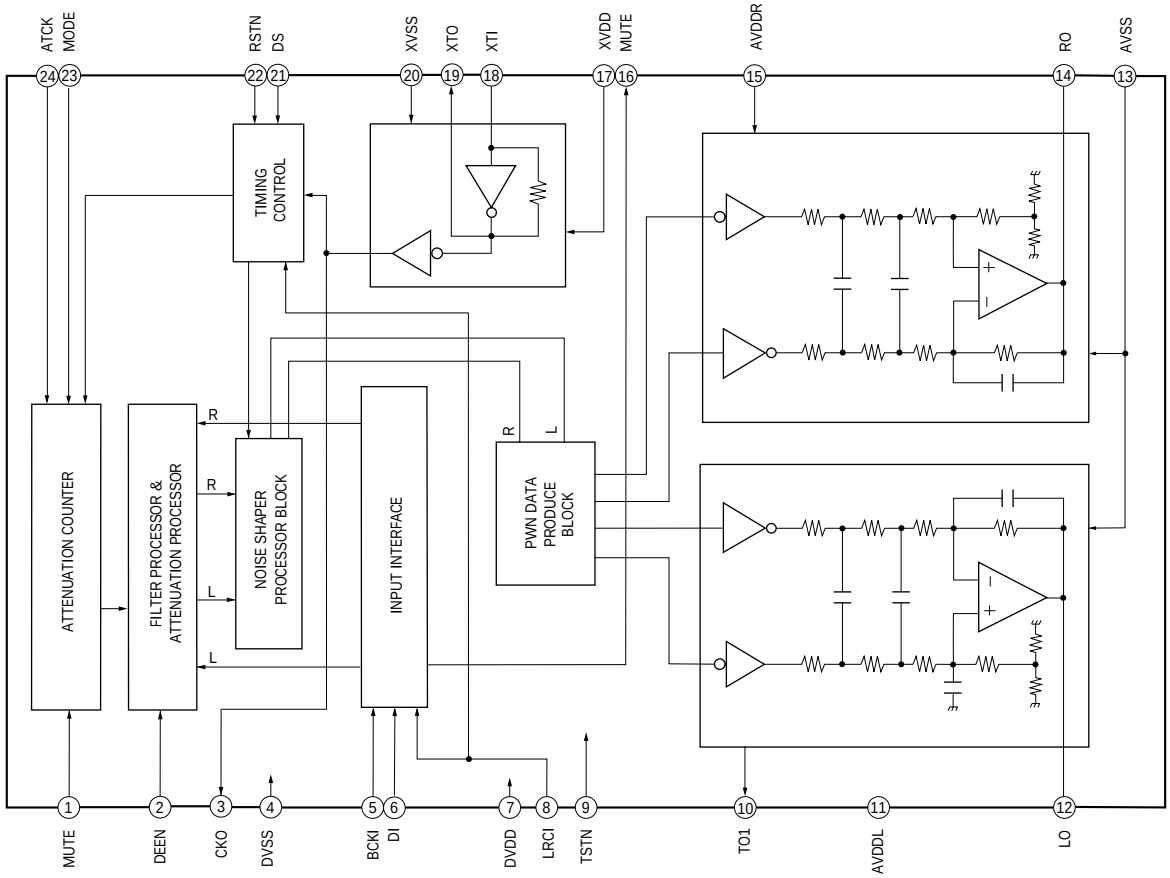
**IC702 CXD2507AQ**




**IC703 BA5930FP**




**IC704 SM5877AM**



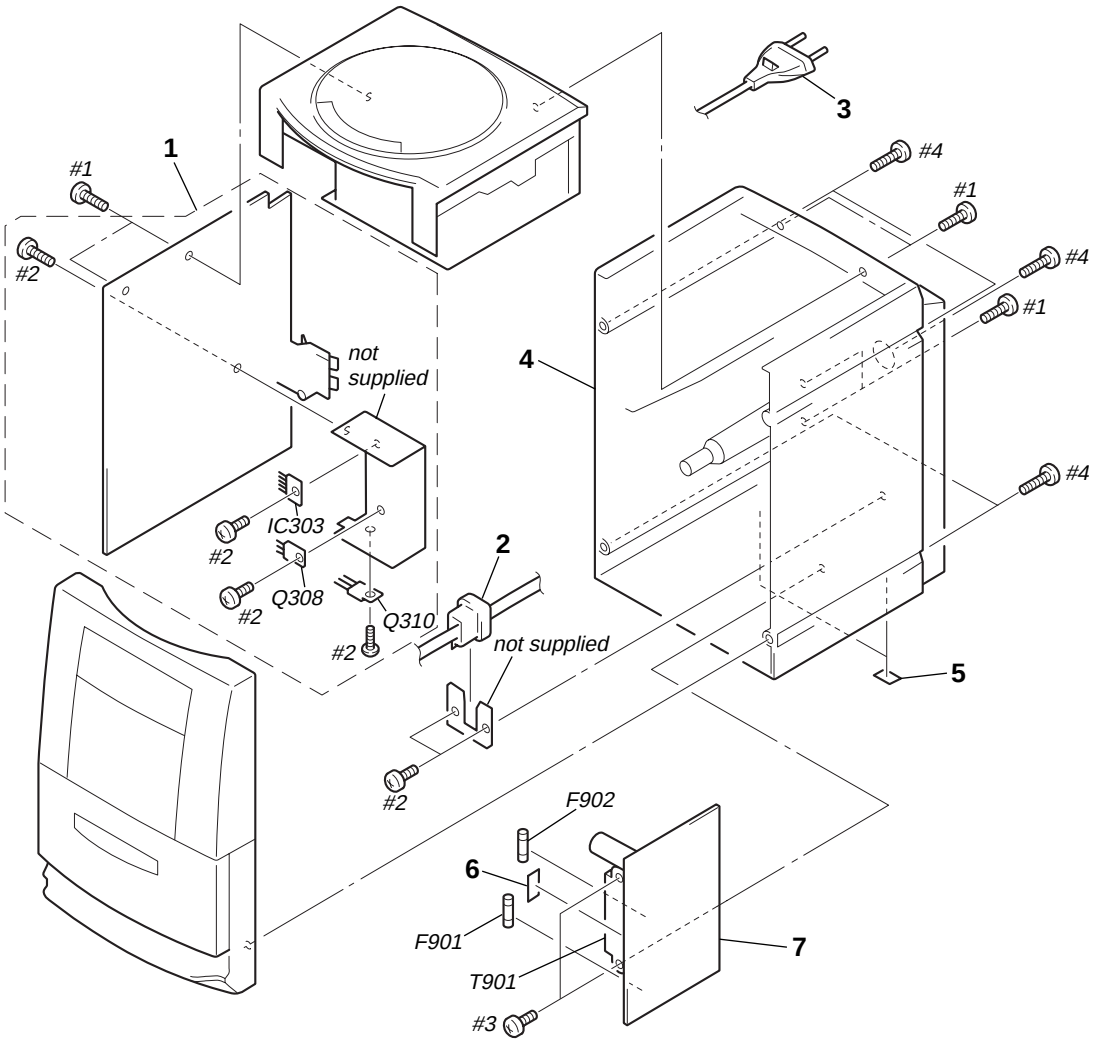
# SECTION 6
# EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviation
  EE : East European model
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Accessories and packing materials and hardware (# mark) list are given in the last of this parts list.

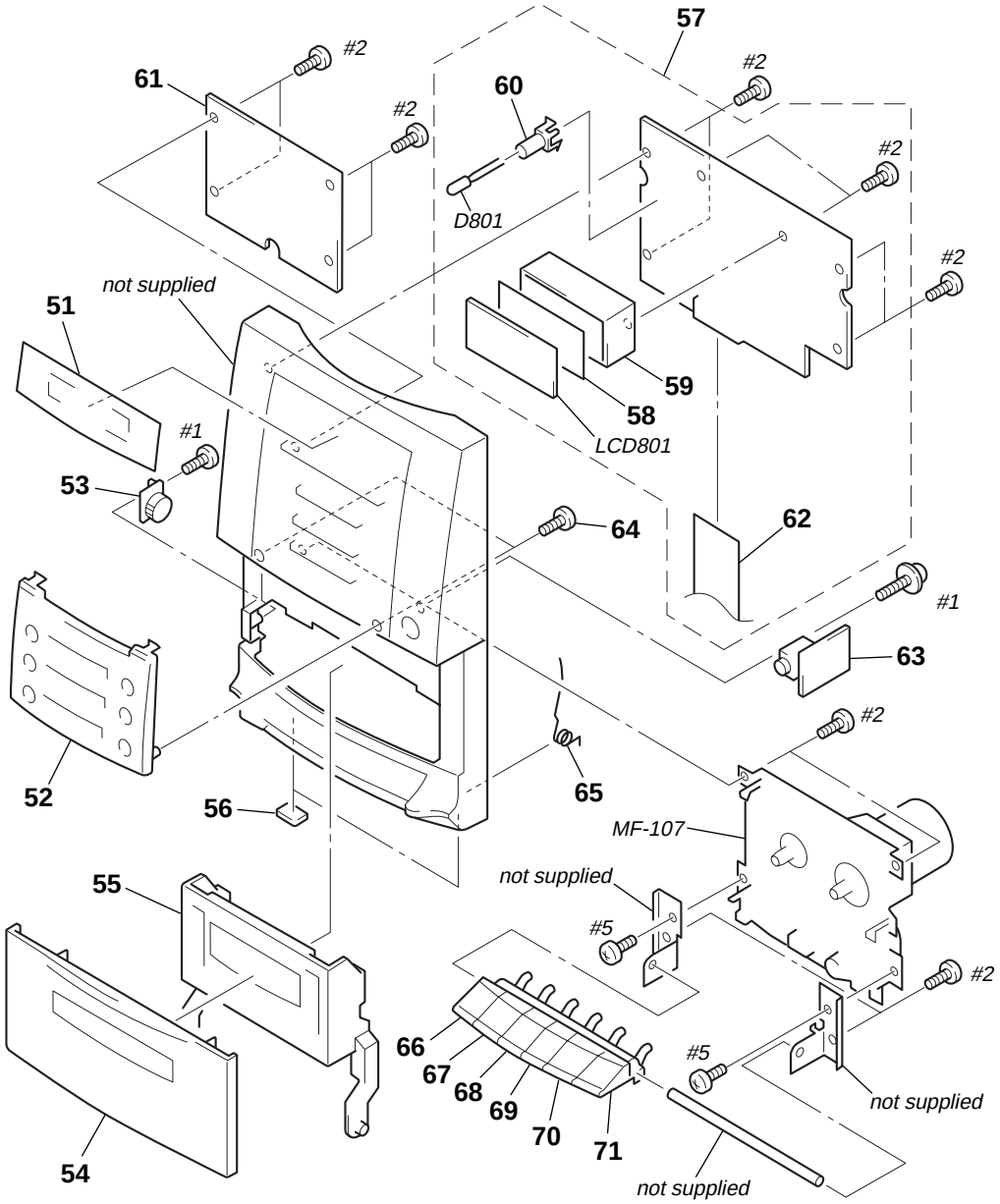
The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

## 6-1. REAR CABINET SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 1 | A-3293-970-A | MAIN BOARD, COMPLETE (EXCEPT EE) | |
| * 1 | A-3293-990-A | MAIN BOARD, COMPLETE (EE) | |
| 2 | 3-703-244-00 | BUSHING (2104), CORD | |
| ⚠3 | 1-575-651-21 | CORD, POWER | |
| 4 | 3-025-492-01 | CABINET (REAR) | |
| 5 | 3-026-310-01 | FOOT | |
| 6 | 3-703-044-26 | LABEL, FUSE WARNING | |
| * 7 | 1-670-425-11 | POWER BOARD | |
| ⚠F901 | 1-532-284-00 | FUSE, TIME-LAG (T630mAL/250V) | |
| ⚠F902 | 1-576-107-11 | FUSE, TIME-LAG (T3.15AL/250V) | |
| IC303 | 8-759-820-22 | IC LA4597 | |
| Q308 | 8-729-021-82 | TRANSISTOR 2SD2396K | |
| Q310 | 8-729-141-83 | TRANSISTOR 2SB1094-LK | |
| ⚠T901 | 1-431-972-11 | TRANSFORMER, POWER | |

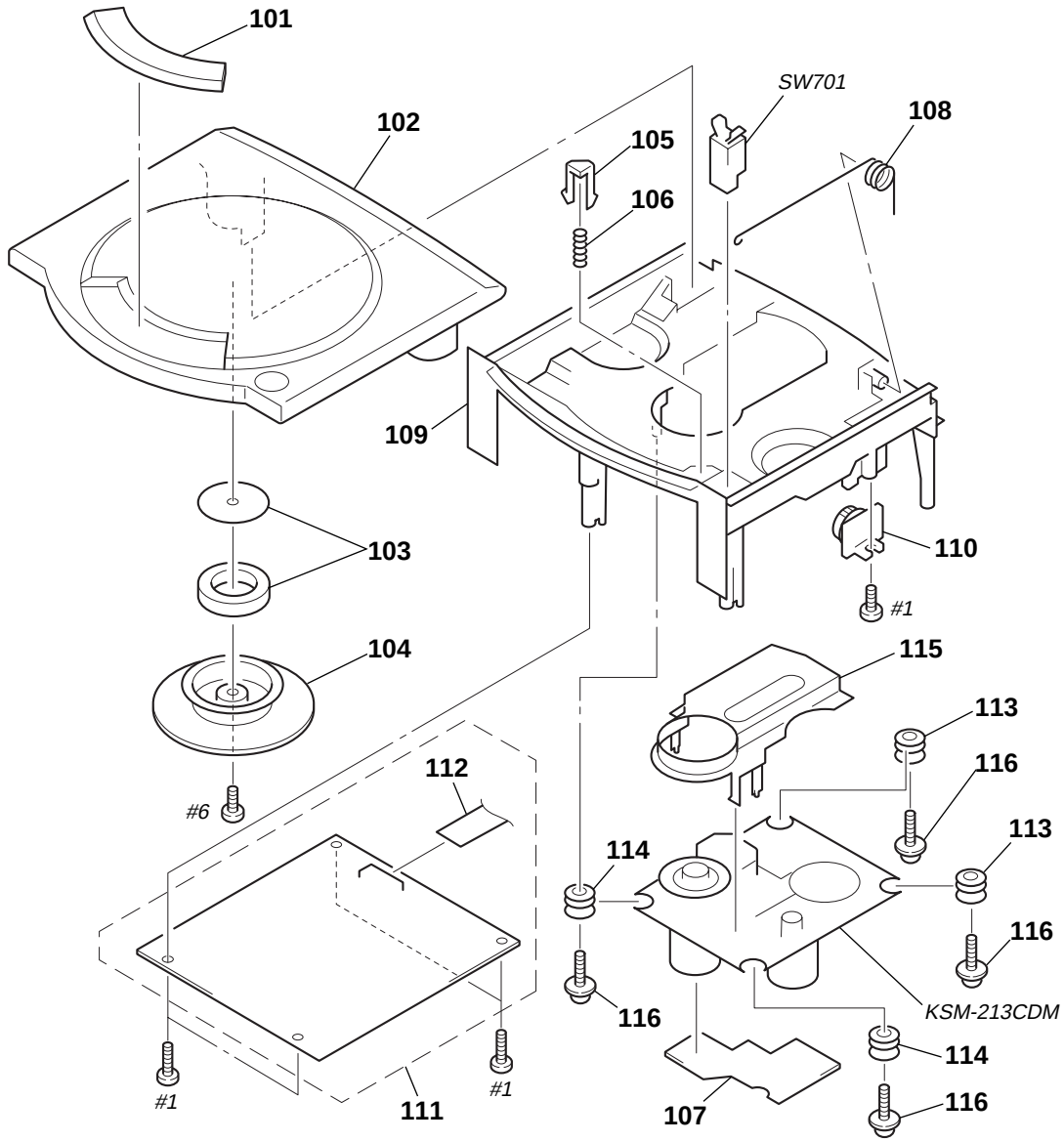
## 6-2. FRONT CABINET SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 51 | 3-025-501-01 | WINDOW, LCD | |
| 52 | 3-026-321-01 | COVER, FRONT | |
| 53 | 3-351-377-01 | GEAR, DAMPER (EE) | |
| 53 | 3-926-926-01 | GEAR, DAMPER (EXCEPT EE) | |
| 54 | A-3320-413-A | HOLDER ASSY, CASSETTE | |
| 55 | 3-025-499-01 | HOLDER, CASSETTE | |
| 56 | 3-026-310-01 | FOOT | |
| * 57 | A-3321-393-A | CONTROL BOARD, COMPLETE | |
| 58 | 3-026-318-01 | SHEET (LCD) | |
| 59 | 3-025-500-01 | HOLDER, LCD | |
| 60 | 3-026-317-01 | HOLDER, LED | |
| * 61 | 1-670-423-11 | KEY BOARD | |

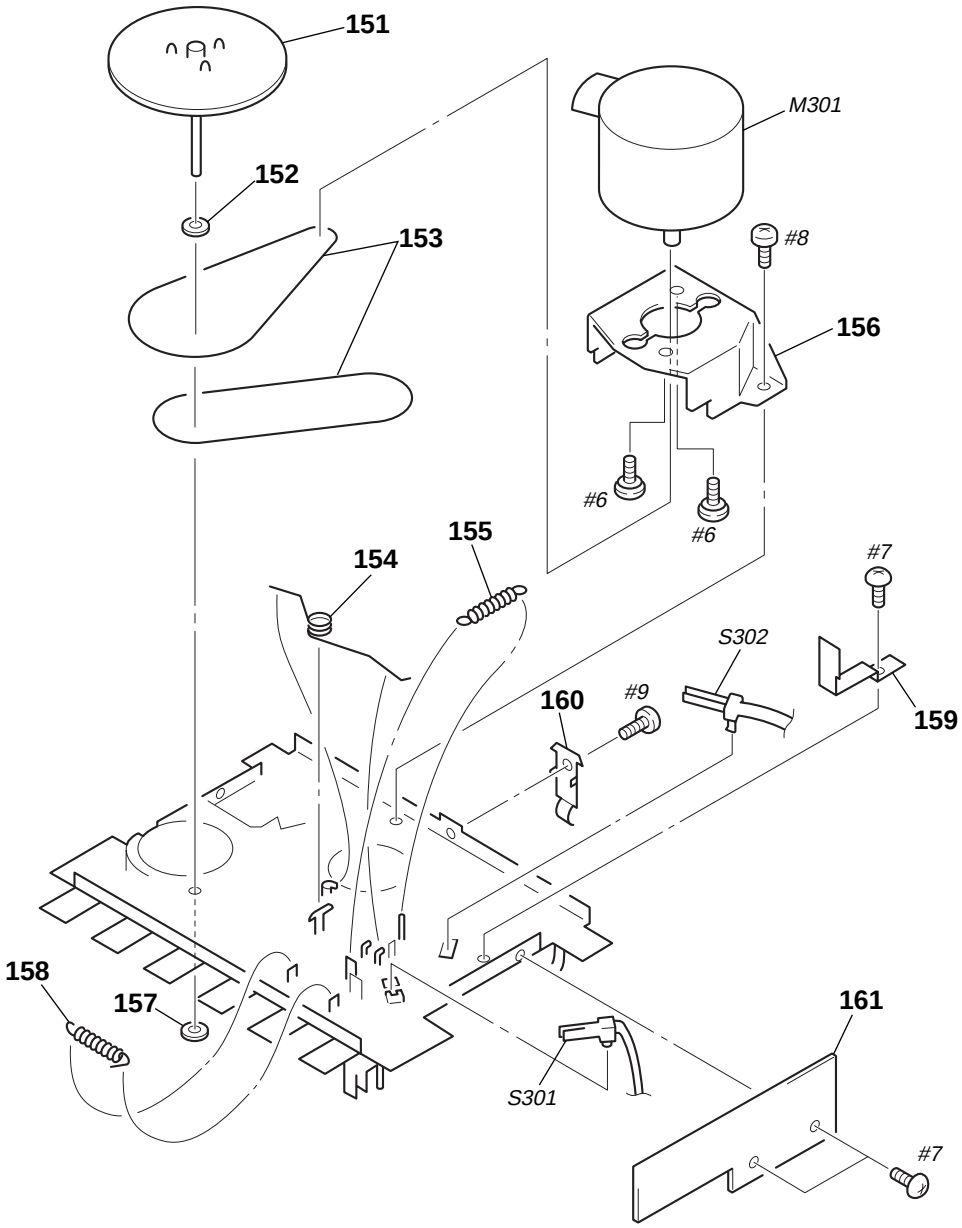
| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 62 | 1-783-371-11 | WIRE, PARALLEL | |
| * 63 | 1-670-427-11 | H.P BOARD | |
| 64 | 4-951-620-01 | SCREW (2.6X8), +BVTP | |
| 65 | 3-026-322-01 | SPRING, CASSETTE UP | |
| 66 | 3-025-508-01 | BUTTON (REC) | |
| 67 | 3-025-511-01 | BUTTON (PLAY) | |
| 68 | 3-025-510-01 | BUTTON (REW) | |
| 69 | 3-025-509-01 | BUTTON (FF) | |
| 70 | 3-025-512-01 | BUTTON (STOP) | |
| 71 | 3-025-507-01 | BUTTON (PAUSE) | |
| D801 | 8-719-989-85 | LED SLR34VR3FM.N (OPERATION) | |
| LCD801 | 1-803-230-11 | DISPLAY PANEL, LIQUID CRYSTAL | |

## 6-3. UPPER CABINET SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 101 | 3-025-506-01 | WINDOW, CD | |
| 102 | 3-025-505-01 | LID, CD | |
| 103 | 1-452-732-11 | MAGNET | |
| 104 | 3-021-020-01 | PLATE, CHUCKING | |
| 105 | 3-026-314-01 | BRACKET (LIFT) | |
| 106 | 3-026-325-01 | SPRING (COMP) | |
| 107 | 1-639-678-12 | CD MOTOR BOARD | |
| 108 | 3-026-315-01 | SPRING, CD UP | |
| 109 | 3-025-504-01 | CABINET (UPPER) | |
| 110 | 3-351-377-01 | GEAR, DAMPER (EE) | |
| 110 | 3-926-926-01 | GEAR, DAMPER (EXCEPT EE) | |
| * 111 | A-3321-395-A | CD BOARD, COMPLETE | |
| 112 | 1-769-824-11 | WIRE (FLAT TYPE) (16 CORE) | |
| 113 | 3-022-370-01 | RUBBER, VIBRATION PROOF | |
| 114 | 3-022-370-11 | RUBBER, VIBRATION PROOF | |
| 115 | 3-923-736-01 | COVER, CD | |
| 116 | 3-916-006-01 | SCREW (2.6X16) | |
| SW701 | 1-692-960-11 | SWITCH, PUSH (1 KEY) (CD DOOR) | |

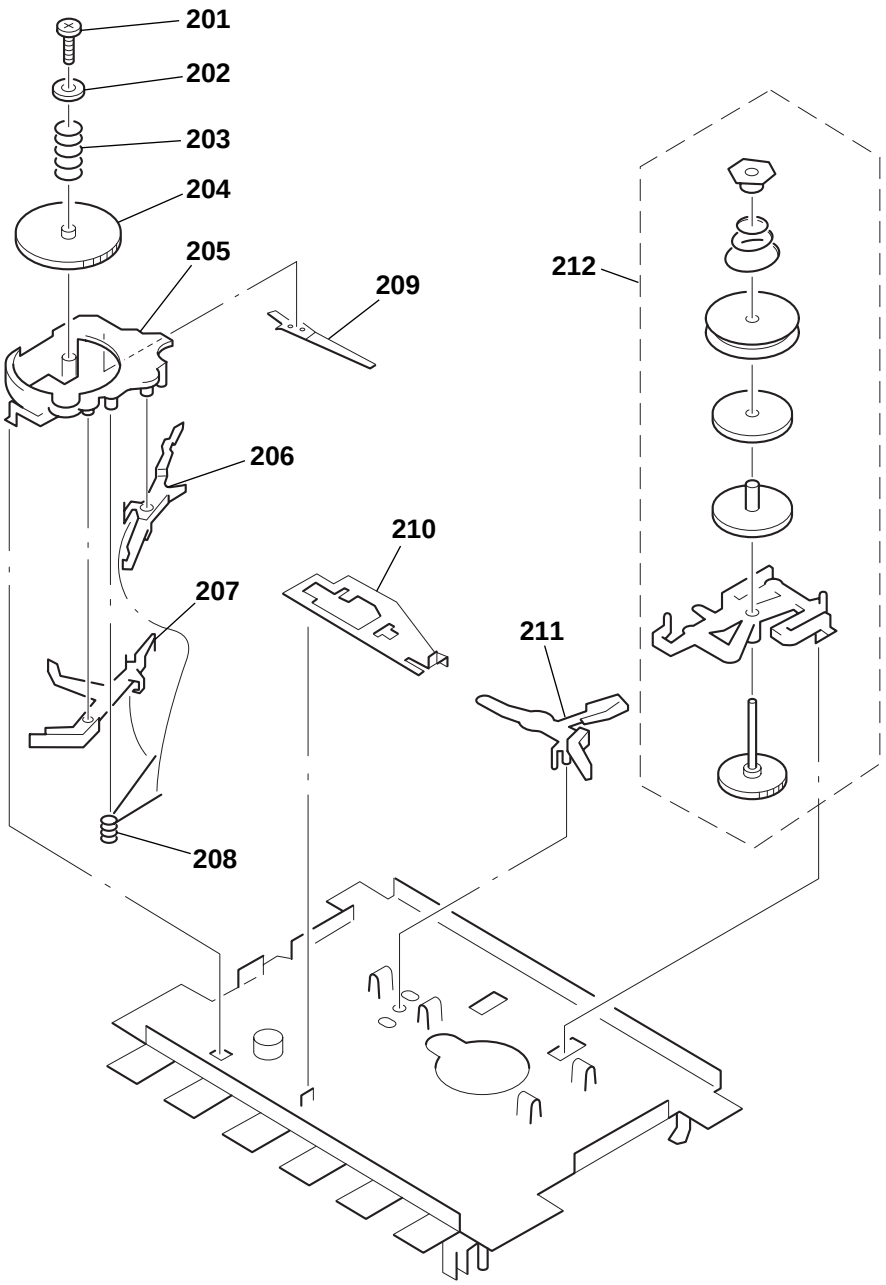
## 6-4. CASSETTE MECHANISM SECTION-1
## (MF-107)




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 151 | 3-907-720-01 | FW ASSY | |
| 152 | 3-701-437-01 | WASHER | |
| 153 | 3-362-989-01 | BELT | |
| 154 | 3-362-970-01 | SPRING | |
| 155 | 3-362-971-01 | SPRING | |
| * 156 | 3-362-988-01 | HOLDER, MOTOR | |
| 157 | 3-362-980-01 | WASHER | |

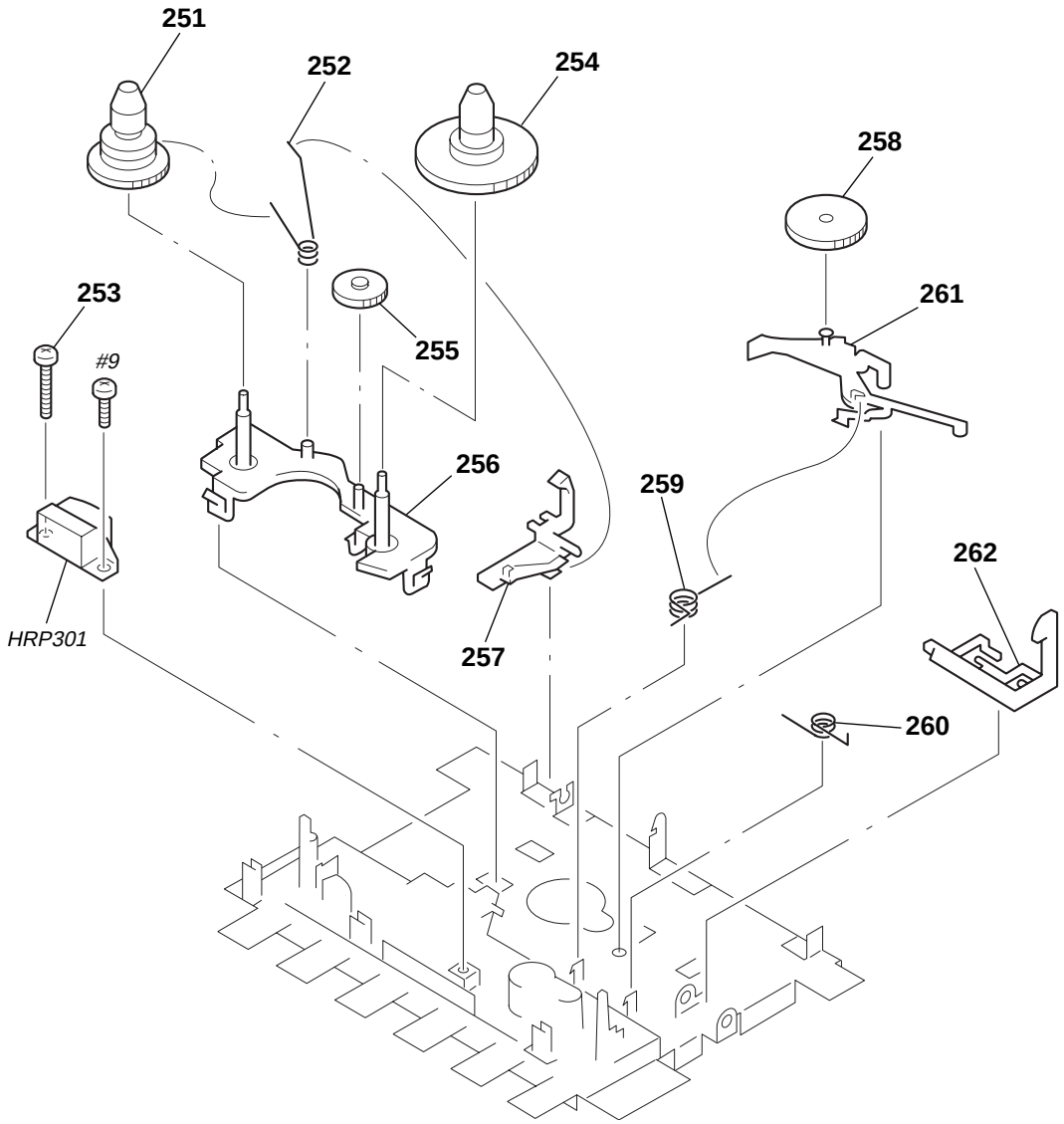
| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 158 | 3-379-843-01 | SPRING | |
| 159 | 3-026-316-01 | SPRING, REC | |
| 160 | 3-362-967-01 | SPRING, CASSETTE | |
| * 161 | 1-670-428-11 | REC SW BOARD | |
| M301 | X-3365-538-1 | MOTOR ASSY (CAPSTAN/REEL) | |
| S301 | 1-571-556-11 | SWITCH, LEAF (MD POWER) | |
| S302 | 1-571-556-11 | SWITCH, LEAF (MD PLAY) | |

## 6-5. CASSETTE MECHANISM SECTION-2 (MF-107)



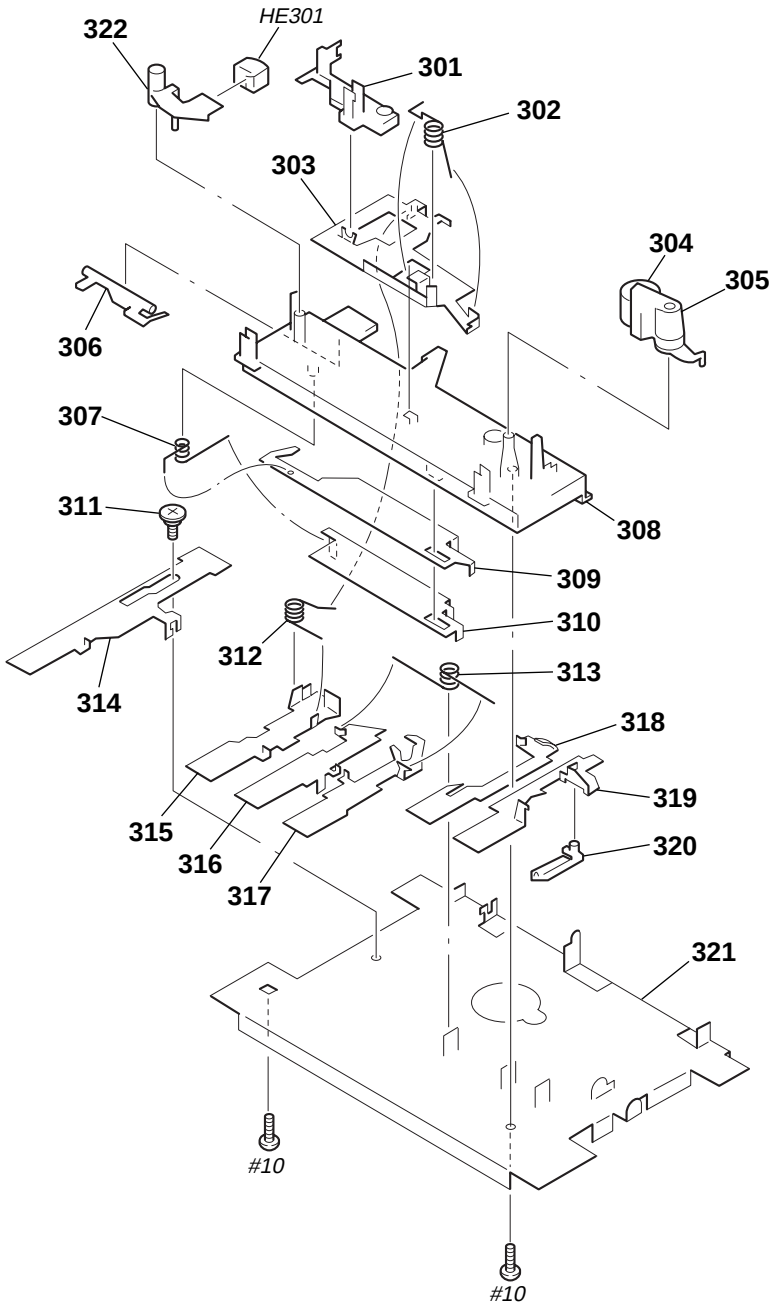

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 201 | 3-366-352-01 | SCREW | |
| 202 | 3-369-961-01 | WASHER | |
| 203 | 3-369-962-01 | SPRING, COMPRESSION | |
| 204 | X-3363-315-1 | GEAR, CAM | |
| 205 | 3-362-973-01 | AS (BASE) | |
| 206 | 3-362-976-01 | LEVER, CONTROL | |
| 207 | 3-362-975-01 | LEVER, SENSOR | |
| 208 | 3-362-977-01 | SPRING | |
| 209 | 3-362-978-01 | SPRING, PLATE | |
| 210 | 3-379-844-01 | PLATE, STOP, FR | |
| 211 | 3-387-697-01 | SENSOR | |
| 212 | 3-362-969-01 | IDLER ASSY, PF | |

## 6-6. CASSETTE MECHANISM SECTION-3
## (MF-107)



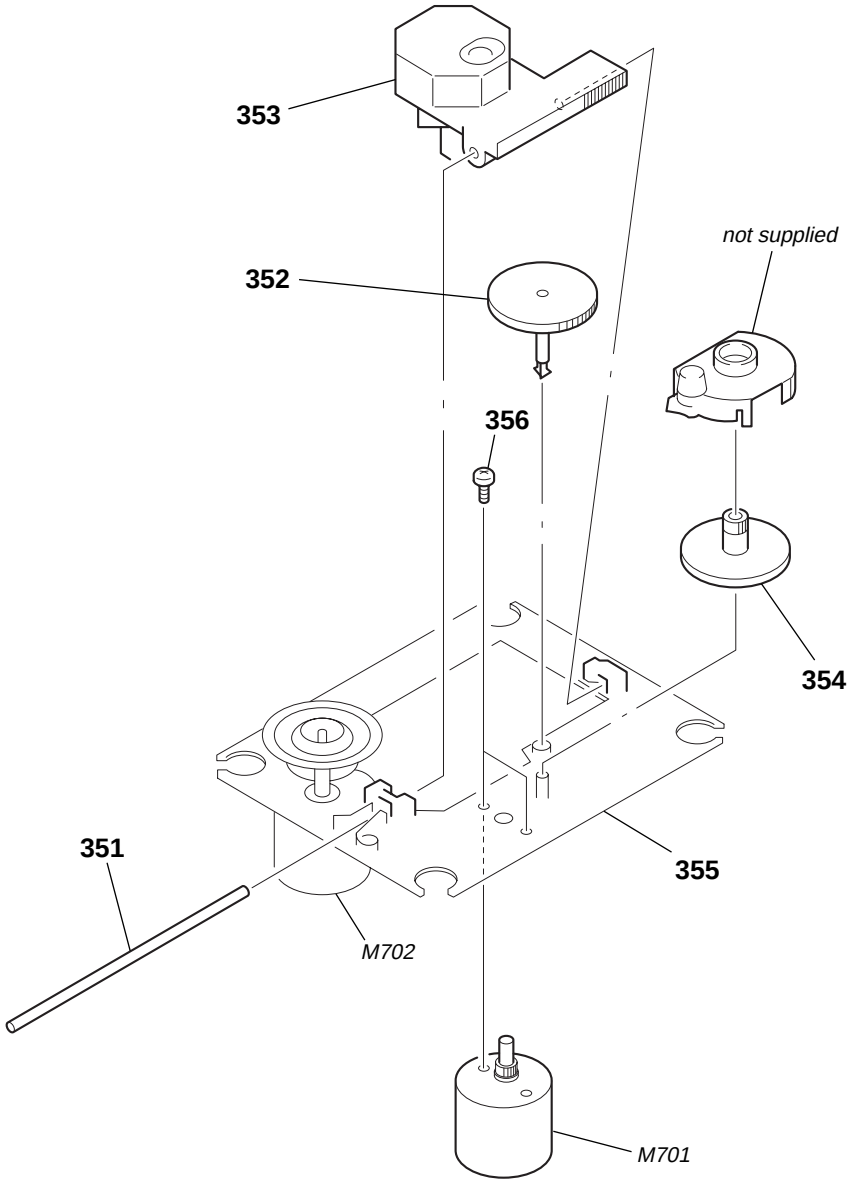

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 251 | X-3363-611-1 | REEL, S | |
| 252 | 3-917-805-01 | SPRING | |
| 253 | 3-382-408-01 | SCREW | |
| 254 | 3-362-962-01 | REEL ASSY, T | |
| 255 | 3-362-965-01 | IDLER, FF | |
| 256 | 3-362-961-01 | SPINDLE (BASE) | |
| 257 | 3-362-966-01 | INTER LOCK | |
| 258 | 3-362-960-01 | PULLEY, IDLER | |
| 259 | 3-362-956-01 | SPRING | |
| 260 | 3-362-957-01 | SPRING | |
| 261 | 3-362-959-01 | ARM, IDLER | |
| 262 | 3-362-968-01 | LEVER, EJECT | |
| HRP301 | 1-543-964-12 | HEAD, MAGNETIC (RECORD/PLAYBACK) | |

## 6-7. CASSETTE MECHANISM SECTION-4
## (MF-107)




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 301 | 3-382-409-01 | GUIDE TAPE AZ | |
| 302 | 3-362-983-01 | SPRING | |
| 303 | 3-382-407-01 | BASE HEAD | |
| 304 | 3-362-982-01 | PINCH ROLLER | |
| 305 | 3-362-981-01 | PINCH ARM | |
| 306 | 3-362-944-01 | STOPPER, REC | |
| 307 | 3-362-945-01 | SPRING | |
| 308 | 3-362-942-01 | FRAME ASSY | |
| * 309 | 3-362-943-01 | PLATE, FUNCTION | |
| * 310 | 3-362-946-01 | LEVER, SW | |
| 311 | 3-362-958-01 | SCREW | |
| 312 | 3-362-954-01 | SPRING | |
| 313 | 3-362-955-01 | SPRING | |
| * 314 | 3-362-947-01 | LEVER, REC | |
| * 315 | 3-362-948-01 | LEVER, PLAY | |
| * 316 | 3-362-949-01 | LEVER, REW | |
| * 317 | 3-362-950-01 | LEVER, FF | |
| * 318 | 3-362-951-01 | LEVER, SE | |
| * 319 | 3-362-952-01 | LEVER, PAUSE | |
| 320 | 3-362-953-01 | ARM, PAUSE | |
| * 321 | 3-362-941-01 | CHASSIS | |
| 322 | 3-362-987-01 | ARM, EH | |
| HE301 | 1-543-558-11 | HEAD, ERASE | |

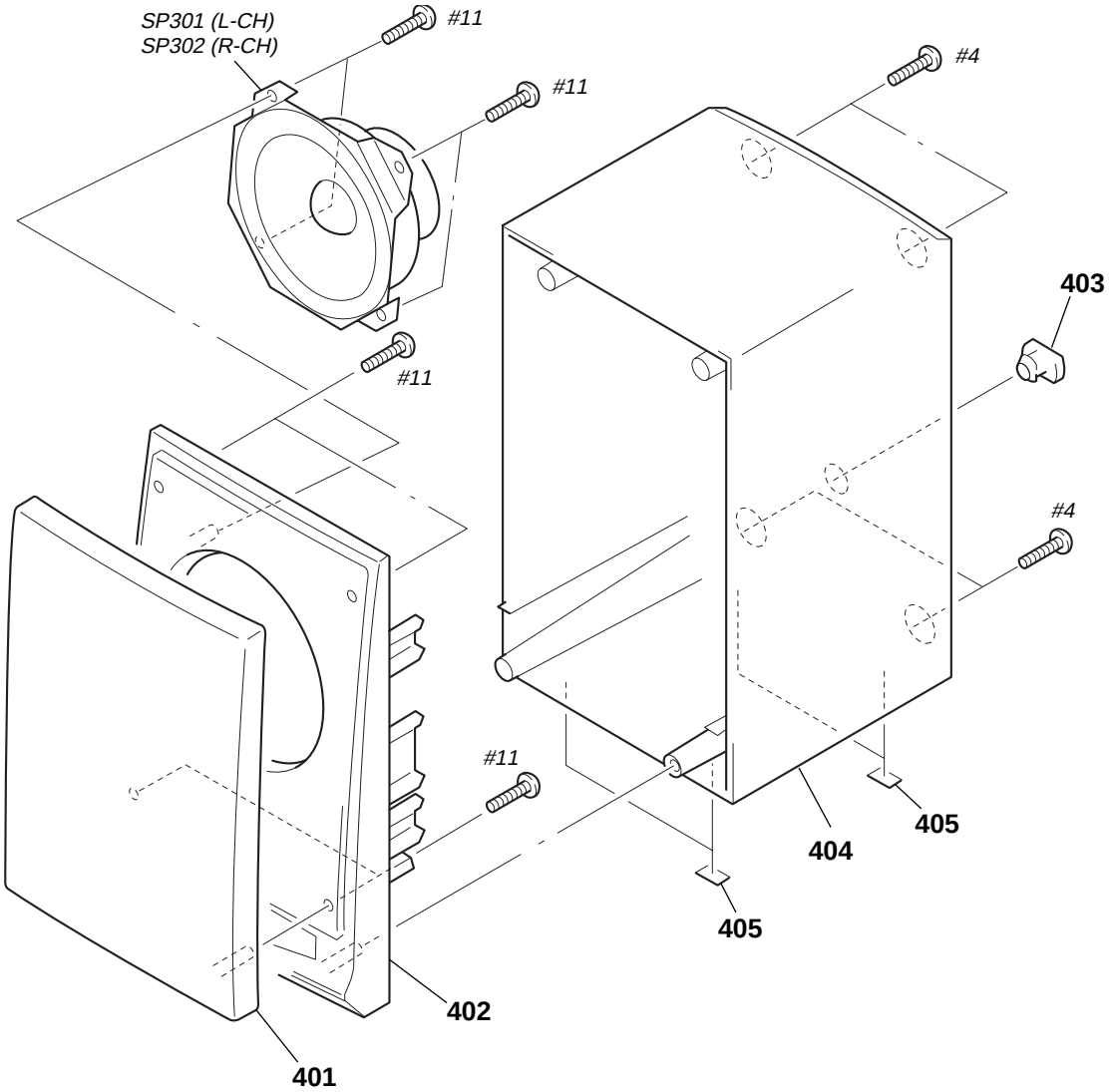
## 6-8. OPTICAL PICK-UP SECTION (KSM-213CDM)




The components identified by mark ⚠ or dotted line with mark. ⚠ are cr itical for saf ety. Replace only with part number specified.

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 351 | 2-626-908-01 | SHAFT, SLED | |
| 352 | 2-626-907-01 | GEAR (A) | |
| ⚠353 | 8-848-483-05 | PICK-UP, OPTICAL KSS-213C | |
| 354 | 2-627-003-02 | GEAR (B) (RP) | |
| 355 | X-2626-202-2 | CHASSIS ASSY (MB), MOTOR (INCLUDING M702) (SPINDLE) | |
| 356 | 3-713-786-51 | SCREW +P 2X3 | |
| M701 | X-2625-769-1 | GEAR ASSY (MB) (RP), MOTOR (SLED) | |

## 6-9. SPEAKER SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 401 | A-3320-420-A | NET ASSY, SPEAKER | |
| 402 | 3-025-513-01 | CABINET, SPEAKER (FRONT) | |
| * 403 | 3-933-229-01 | STOPPER, CORD | |
| 404 | 3-025-514-01 | CABINET, SPEAKER (REAR) | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 405 | 3-026-310-01 | FOOT | |
| SP301 | 1-505-395-21 | SPEAKER (LOUD) (10cm) (L-CH) | |
| SP302 | 1-505-395-21 | SPEAKER (LOUD) (10cm) (R-CH) | |

# SECTION 7
# ELECTRICAL PARTS LIST

CD

NOTE:

- Due to standardization, replacements in the par ts list ma y be diff erent from the par ts specified in the diag rams or the components used on the set.
- -XX and -X mean standardized parts, so the y ma y ha ve some diff erence from the original one.
- RESIST ORS
  All resistors are in ohms.
  METAL:Metal-film resistor .
  METAL OXIDE:Metal o xide-film resistor .
  F:nonflammable
- Abbreviation
  EE : East European model
  IT : Italian model
  SP : Singapore model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCT ORS
  In each case, u : μ, for example:
  uA.. : μA.. uPA.. : μPA..
  uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..
- CAPACITORS
  uF : μF
- COILS
  uH : μH

The components identified b y mark ⚠ or dotted line with mark. ⚠ are cr itical for saf ety. Replace only with part number specified.

When indicating parts by reference number , please include the board.

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| * | A-3321-395-A | CD BOARD, COMPLETE | | | |
| | | ********** | | | |
| | 1-769-824-11 | WIRE (FLAT TYPE) (16 CORE) | | | |
| | | < CAPACITOR > | | | |
| C701 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C702 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C703 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C704 | 1-104-664-11 | ELECT | 47uF | 20% | 10V |
| C705 | 1-162-199-31 | CERAMIC | 10PF | 5% | 50V |
| C706 | 1-136-169-00 | FILM | 0.22uF | 5% | 50V |
| C707 | 1-130-489-00 | MYLAR | 0.033uF | 5% | 50V |
| C708 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C709 | 1-130-489-00 | MYLAR | 0.033uF | 5% | 50V |
| C710 | 1-130-483-00 | MYLAR | 0.01uF | 5% | 50V |
| C711 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V |
| C712 | 1-130-491-00 | MYLAR | 0.047uF | 5% | 50V |
| C713 | 1-130-481-00 | MYLAR | 0.0068uF | 5% | 50V |
| C714 | 1-130-495-00 | MYLAR | 0.1uF | 5% | 50V |
| C715 | 1-162-302-11 | CERAMIC | 0.0022uF | 30% | 16V |
| C716 | 1-136-165-00 | FILM | 0.1uF | 5% | 50V |
| C717 | 1-136-165-00 | FILM | 0.1uF | 5% | 50V |
| C718 | 1-136-165-00 | FILM | 0.1uF | 5% | 50V |
| C719 | 1-131-375-00 | TANTALUM | 4.7uF | 10% | 10V |
| C720 | 1-130-489-00 | MYLAR | 0.033uF | 5% | 50V |
| C721 | 1-130-486-00 | MYLAR | 0.018uF | 10% | 50V |
| C722 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C723 | 1-126-962-11 | ELECT | 3.3uF | 20% | 50V |
| C724 | 1-130-493-00 | MYLAR | 0.068uF | 5% | 50V |
| C725 | 1-104-666-11 | ELECT | 220uF | 20% | 10V |
| C726 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C727 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C728 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C729 | 1-136-169-00 | FILM | 0.22uF | 5% | 50V |
| C730 | 1-162-286-21 | CERAMIC | 220PF | 10% | 50V |
| C731 | 1-162-290-31 | CERAMIC | 470PF | 10% | 50V |
| C732 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C733 | 1-136-173-00 | FILM | 0.47uF | 5% | 50V |
| C734 | 1-104-664-11 | ELECT | 47uF | 20% | 10V |
| C735 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V |
| C736 | 1-162-291-31 | CERAMIC | 560PF | 10% | 50V |
| C737 | 1-162-301-11 | CERAMIC | 0.0015uF | 30% | 16V |
| C738 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C739 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C740 | 1-162-292-31 | CERAMIC | 680PF | 10% | 50V |
| C741 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C742 | 1-136-967-11 | MYLAR | 0.012uF | 5% | 50V |
| C743 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C744 | 1-130-491-00 | MYLAR | 0.047uF | 5% | 50V |
| C745 | 1-126-927-11 | ELECT | 2200uF | 20% | 10V |
| C746 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V |
| C747 | 1-104-666-11 | ELECT | 220uF | 20% | 10V |
| C748 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C749 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C750 | 1-162-199-31 | CERAMIC | 10PF | 5% | 50V |
| C751 | 1-162-199-31 | CERAMIC | 10PF | 5% | 50V |
| C752 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C754 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C755 | 1-104-666-11 | ELECT | 220uF | 20% | 10V |
| C756 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C757 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C758 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C759 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C760 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C761 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C762 | 1-104-666-11 | ELECT | 220uF | 20% | 10V |
| C765 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C766 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V |
| C767 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C768 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V |
| C769 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C770 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C771 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V |
| C772 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V |
| C773 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V |
| C774 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C777 | 1-162-201-31 | CERAMIC | 12PF | 5% | 50V |
| C780 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C781 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C784 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| | | < CONNECTOR > | | | |
| CNP701 | 1-770-168-11 | CONNECTOR, FFC/FPC 16P | | | |
| * CNP702 | 1-774-957-11 | PIN, CONNECTOR (PC BOARD) 11P | | | |
| * CNP703 | 1-564-708-11 | PIN, CONNECTOR (SMALL TYPE) 6P | | | |
| * CNP704 | 1-580-159-11 | PIN, CONNECTOR (PC BOARD) 7P | | | |

# CD | CD MOTOR | CONTROL

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | | < IC > | | | |
| IC701 | 8-752-074-34 | IC CXA1782CQ | | | |
| IC702 | 8-752-372-94 | IC CXD2507AQ | | | |
| IC703 | 8-759-336-75 | IC BA5930FP | | | |
| IC704 | 8-759-426-44 | IC 27C512-C35A65-V3.03 | | | |
| | | < COIL > | | | |
| L701 | 1-410-509-11 | INDUCTOR | 10uH | | |
| L702 | 1-410-509-11 | INDUCTOR | 10uH | | |
| L703 | 1-410-509-11 | INDUCTOR | 10uH | | |
| L704 | 1-410-509-11 | INDUCTOR | 10uH | | |
| | | < TRANSISTOR > | | | |
| Q701 | 8-729-026-41 | TRANSISTOR 2SA933AS-QRT | | | |
| Q702 | 8-729-029-94 | TRANSISTOR DTC143TSA | | | |
| | | < RESISTOR > | | | |
| R701 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| R702 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R703 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R704 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R705 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R706 | 1-247-862-11 | CARBON | 20K | 5% | 1/4W |
| R707 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| R708 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| R709 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| R710 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| R711 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| R712 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| R713 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R714 | 1-247-891-00 | CARBON | 330K | 5% | 1/4W |
| R716 | 1-247-883-00 | CARBON | 150K | 5% | 1/4W |
| R717 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R718 | 1-247-899-11 | CARBON | 680K | 5% | 1/4W |
| R719 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R720 | 1-247-896-11 | CARBON | 510K | 5% | 1/4W |
| R721 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R722 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R723 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R724 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R725 | 1-247-876-11 | CARBON | 75K | 5% | 1/4W |
| R726 | 1-247-883-00 | CARBON | 150K | 5% | 1/4W |
| R727 | 1-247-883-00 | CARBON | 150K | 5% | 1/4W |
| R728 | 1-247-887-00 | CARBON | 220K | 5% | 1/4W |
| R729 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R730 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W |
| R731 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R732 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R733 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R734 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R735 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R736 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R737 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R738 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R740 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R741 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W |
| R742 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W |
| R743 | 1-247-863-11 | CARBON | 22K | 5% | 1/4W |
| R744 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R745 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/4W |
| R746 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R747 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R748 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R749 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R751 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R752 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R753 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R754 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R755 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R756 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R757 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R758 | 1-260-072-11 | CARBON | 4.7 | 5% | 1/2W |
| R759 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| | | < VARIABLE RESISTOR > | | | |
| RV701 | 1-230-497-11 | RES, ADJ, CARBON 22K | | | |
| RV702 | 1-223-459-21 | RES, ADJ, CERMET 2.2K | | | |
| RV703 | 1-230-497-11 | RES, ADJ, CARBON 22K | | | |
| RV704 | 1-230-497-11 | RES, ADJ, CARBON 22K | | | |
| | | < VIBRATOR > | | | |
| X701 | 1-579-345-11 | VIBRATOR, CERAMIC (16.9344MHz) | | | |
| ********** | | | | | |
| | 1-639-678-12 | CD MOTOR BOARD | | | |
| | | ********** | | | |
| | | < CONNECTOR > | | | |
| CNP707 | 1-564-722-11 | PIN, CONNECTOR (SMALL TYPE) 6P | | | |
| | | < SWITCH > | | | |
| S701 | 1-572-085-11 | SWITCH, LEAF (LIMIT) | | | |
| ********** | | | | | |
| * | A-3321-393-A | CONTROL BOARD, COMPLETE | | | |
| | | ********** | | | |
| | 1-783-371-11 | WIRE, PARALLEL | | | |
| | 3-025-500-01 | HOLDER, LCD | | | |
| | 3-026-317-01 | HOLDER, LED | | | |
| | 3-026-318-01 | SHEET (LCD) | | | |
| | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S | | | |
| | | < CAPACITOR > | | | |
| C801 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C802 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C803 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C804 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C805 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C806 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C807 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C808 | 1-104-664-11 | ELECT | 47uF | 20% | 10V |
| C809 | 1-104-656-11 | ELECT | 2200uF | 20% | 6.3V |
| C810 | 1-162-205-31 | CERAMIC | 18PF | 5% | 50V |
| C811 | 1-162-205-31 | CERAMIC | 18PF | 5% | 50V |
| C812 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C813 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C814 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C815 | 1-162-209-31 | CERAMIC | 27PF | 5% | 50V |
| C816 | 1-162-209-31 | CERAMIC | 27PF | 5% | 50V |
| C817 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C818 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C819 | 1-162-210-31 | CERAMIC | 30PF | 5% | 50V |
| C820 | 1-162-210-31 | CERAMIC | 30PF | 5% | 50V |
| C821 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V |
| C822 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C823 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C824 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V |
| C825 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V |
| C833 | 1-126-918-11 | ELECT | 4700uF | 20% | 6.3V |
| | | < CONNECTOR > | | | |
| CNP801 | 1-695-384-31 | PIN, CONNECTOR (PC BOARD) 23P | | | |
| * CNP802 | 1-766-594-11 | PIN, CONNECTOR (PC BOARD) 11P | | | |
| CNP803 | 1-506-987-11 | PIN, CONNECTOR (PC BOARD) 5P | | | |
| | | < DIODE > | | | |
| D801 | 8-719-989-85 | LED SLR34VR3FM.N (OPERATION) | | | |
| D802 | 8-719-991-33 | DIODE 1SS133T-77 | | | |
| D803 | 8-719-991-33 | DIODE 1SS133T-77 | | | |
| D804 | 8-719-991-33 | DIODE 1SS133T-77 | | | |
| D805 | 8-719-991-33 | DIODE 1SS133T-77 | | | |
| D806 | 8-719-991-33 | DIODE 1SS133T-77 | | | |
| D807 | 8-719-991-33 | DIODE 1SS133T-77 | | | |
| | | < IC > | | | |
| IC801 | 8-752-886-71 | IC CXP50716-082Q | | | |
| IC802 | 8-759-708-05 | IC NJM78L05A | | | |
| IC803 | 8-749-011-05 | IC GP1U28X | | | |
| IC804 | 8-759-165-86 | IC PST600I-T | | | |
| | | < COIL > | | | |
| L801 | 1-414-496-11 | INDUCTOR | 10uH | | |
| | | < LIQUID CRYSTAL DISPLAY > | | | |
| LCD801 | 1-803-230-11 | DISPLAY PANEL, LIQUID CRYSTAL | | | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | | < TRANSISTOR > | | | |
| Q801 | 8-729-902-80 | TRANSISTOR DTA114YS | | | |
| Q802 | 8-729-029-94 | TRANSISTOR DTC143TSA | | | |
| Q803 | 8-729-922-66 | TRANSISTOR 2SC2410SN | | | |
| Q804 | 8-729-922-66 | TRANSISTOR 2SC2410SN | | | |
| Q805 | 8-729-902-80 | TRANSISTOR DTA114YS | | | |
| Q806 | 8-729-907-33 | TRANSISTOR 2SD1468S-R | | | |
| | | < RESISTOR > | | | |
| R801 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R806 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R811 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R816 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R817 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W |
| R818 | 1-249-420-11 | CARBON | 1.8K | 5% | 1/4W |
| R819 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R820 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/4W |
| R821 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| R822 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R823 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R824 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R825 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R826 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R827 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R828 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R829 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R830 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R831 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R832 | 1-247-850-11 | CARBON | 6.2K | 5% | 1/4W |
| R833 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R834 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R835 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R836 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R837 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R838 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R839 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R840 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R841 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R842 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R843 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R844 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R845 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R846 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R847 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R848 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R849 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R850 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R851 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R852 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R853 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R854 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R855 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |

# CONTROL | H.P | KEY

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R856 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R857 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R858 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R859 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R860 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R861 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R862 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R863 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R864 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R865 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R866 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R867 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R868 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R869 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R870 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R871 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R872 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R873 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R874 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R875 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R876 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R877 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R878 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R879 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R880 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R881 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R882 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R883 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R884 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R885 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R886 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R887 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R888 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R889 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R890 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R891 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/4W |
| R892 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R895 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R896 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R897 | 1-247-807-11 | CARBON | 100 | 5% | 1/4W |
| R898 | 1-247-807-11 | CARBON | 100 | 5% | 1/4W |
| R899 | 1-247-807-11 | CARBON | 100 | 5% | 1/4W |
| R900 | 1-247-807-11 | CARBON | 100 | 5% | 1/4W |
| R903 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R904 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| | | < SWITCH > | | | |
| SW801 | 1-762-196-21 | SWITCH, TACTILE (OPERATE) | | | |
| SW802 | 1-762-196-21 | SWITCH, TACTILE (MEGA BASS) | | | |
| SW803 | 1-762-196-21 | SWITCH, TACTILE (SOUND) | | | |
| SW804 | 1-762-196-21 | SWITCH, TACTILE (+) | | | |
| SW805 | 1-762-196-21 | SWITCH, TACTILE (-) | | | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | | < VIBRATOR > | | | |
| X801 | 1-579-901-11 | OSCILLATOR, CERAMIC (4.19MHz) | | | |
| X802 | 1-760-305-11 | VIBRATOR, CRYSTAL (32.768kHz) | | | |
| ********** | | | | | |
| * | 1-670-427-11 | H.P BOARD | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C120 | 1-126-786-11 | ELECT | 47uF | 20% | 16V |
| C220 | 1-126-786-11 | ELECT | 47uF | 20% | 16V |
| | | < CONNECTOR > | | | |
| * CNP308 | 1-564-520-11 | PLUG, CONNECTOR 5P | | | |
| | | < JACK > | | | |
| J302 | 1-568-267-11 | JACK (PHONES) | | | |
| | | < COIL > | | | |
| L101 | 1-410-521-11 | INDUCTOR | 100uH | | |
| L201 | 1-410-521-11 | INDUCTOR | 100uH | | |
| L301 | 1-410-501-11 | INDUCTOR | 2.2uH | | |
| | | < RESISTOR > | | | |
| R118 | 1-249-404-00 | CARBON | 82 | 5% | 1/4W |
| R218 | 1-249-404-00 | CARBON | 82 | 5% | 1/4W |
| ********** | | | | | |
| * | 1-670-423-11 | KEY BOARD | | | |
| | | ********** | | | |
| | | < CONNECTOR > | | | |
| * CNP804 | 1-580-166-11 | PIN, CONNECTOR (PC BOARD) 5P | | | |
| | | < RESISTOR > | | | |
| R802 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R803 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R804 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W |
| R805 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/4W |
| R807 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R808 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R809 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W |
| R810 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/4W |
| R812 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W |
| R813 | 1-249-420-11 | CARBON | 1.8K | 5% | 1/4W |
| R814 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R815 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/4W |
| | | < SWITCH > | | | |
| SW806 | 1-762-196-21 | SWITCH, KEY BOARD (PLAY MODE•MONO/ST ISS) | | | |
| SW807 | 1-762-196-21 | SWITCH, KEY BOARD (BAND) | | | |
| SW808 | 1-762-196-21 | SWITCH, KEY BOARD (STANDBY) | | | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| SW809 | 1-762-196-21 | SWITCH, KEY BOARD (CLOCK) | |
| SW810 | 1-762-196-21 | SWITCH, KEY BOARD (▶▶I) | |
| SW811 | 1-762-196-21 | SWITCH, KEY BOARD (I◀◀) | |
| SW812 | 1-762-196-21 | SWITCH, KEY BOARD (DISPLAY• ENTER MEMORY) | |
| SW813 | 1-762-196-21 | SWITCH, KEY BOARD (PRESET +) | |
| SW814 | 1-762-196-21 | SWITCH, KEY BOARD (PRESET -) | |
| SW815 | 1-762-196-21 | SWITCH, KEY BOARD (FUNCTION) | |
| SW816 | 1-762-196-21 | SWITCH, KEY BOARD (► II) | |
| SW817 | 1-762-196-21 | SWITCH, KEY BOARD (■) | |
| SW818 | 1-762-196-21 | SWITCH, KEY BOARD (SLEEP) | |
| SW819 | 1-762-196-21 | SWITCH, KEY BOARD (WAKE UP) | |
| ********** | | | |
| * | A-3293-970-A | MAIN BOARD, COMPLETE (EXCEPT EE) | |
| * | A-3293-990-A | MAIN BOARD, COMPLETE (EE) | |
| | | ********** | |
| * | 1-564-187-00 | PIN, CONNECTOR | |
| | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S | |
| | | < CAPACITOR > | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C1 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C2 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C3 | 1-162-209-31 | CERAMIC | 27PF | 5% | 50V (EXCEPT EE) |
| C4 | 1-162-203-31 | CERAMIC | 15PF | 5% | 50V |
| C5 | 1-162-851-11 | CERAMIC | 0.1uF | | 16V |
| C6 | 1-162-851-11 | CERAMIC | 0.1uF | | 16V |
| C7 | 1-162-851-11 | CERAMIC | 0.1uF | | 16V |
| C8 | 1-162-195-31 | CERAMIC | 4.7PF | 10% | 50V (EXCEPT EE) |
| C9 | 1-162-219-31 | CERAMIC | 68PF | 5% | 50V |
| C10 | 1-162-290-31 | CERAMIC | 470PF | 10% | 50V |
| C11 | 1-162-199-31 | CERAMIC | 10PF | 5% | 50V |
| C12 | 1-107-734-11 | FILM | 360PF | 5% | 100V |
| C13 | 1-162-851-11 | CERAMIC | 0.1uF | | 16V |
| C14 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C15 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C16 | 1-162-288-31 | CERAMIC | 330PF | 10% | 50V |
| C17 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C18 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C19 | 1-162-849-11 | CERAMIC | 0.068uF | 10% | 16V |
| C20 | 1-162-850-11 | CERAMIC | 0.082uF | 10% | 16V |
| C21 | 1-162-850-11 | CERAMIC | 0.082uF | 10% | 16V |
| C22 | 1-136-154-00 | FILM | 0.012uF | 5% | 50V |
| C23 | 1-136-154-00 | FILM | 0.012uF | 5% | 50V |
| C24 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C25 | 1-162-851-11 | CERAMIC | 0.1uF | | 16V |
| C26 | 1-124-443-00 | ELECT | 100uF | 20% | 10V |
| C27 | 1-162-211-31 | CERAMIC | 33PF | 5% | 50V |
| C28 | 1-162-199-31 | CERAMIC | 10PF | 5% | 50V |
| C29 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C30 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C31 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C32 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C33 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C34 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C35 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C36 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C37 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C38 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C39 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C40 | 1-136-177-00 | FILM | 1uF | 5% | 50V |
| C41 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C42 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C43 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C44 | 1-126-233-11 | ELECT | 22uF | 20% | 50V |
| C45 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C46 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C47 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C48 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C49 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C50 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C51 | 1-101-005-00 | CERAMIC | 22000PF | | 50V |
| C52 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C53 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C55 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C56 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C58 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C59 | 1-162-215-31 | CERAMIC | 47PF | 5% | 50V |
| C60 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C61 | 1-162-213-31 | CERAMIC | 39PF | 5% | 50V |
| C62 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C64 | 1-162-851-11 | CERAMIC | 0.1uF | | 16V |
| C65 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C67 | 1-162-199-31 | CERAMIC | 10PF | 5% | 50V |
| C68 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C70 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C72 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C73 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C74 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C101 | 1-130-473-00 | MYLAR | 0.0015uF | 5% | 50V |
| C102 | 1-162-302-11 | CERAMIC | 0.0022uF | 20% | 16V |
| C103 | 1-104-664-11 | ELECT | 47uF | 20% | 10V |
| C104 | 1-161-020-11 | CERAMIC | 0.039uF | 10% | 16V |
| C105 | 1-124-902-00 | ELECT | 0.47uF | 20% | 50V |
| C106 | 1-124-903-11 | ELECT | 1uF | 20% | 50V |
| C107 | 1-124-902-00 | ELECT | 0.47uF | 20% | 50V |
| C108 | 1-130-495-00 | MYLAR | 0.1uF | 5% | 50V |
| C109 | 1-130-487-00 | MYLAR | 0.022uF | 5% | 50V |
| C110 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C111 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C112 | 1-124-903-11 | ELECT | 1uF | 20% | 50V |
| C113 | 1-162-301-11 | CERAMIC | 0.0015uF | 30% | 16V |
| C114 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C115 | 1-124-443-00 | ELECT | 100uF | 20% | 10V |
| C116 | 1-124-443-00 | ELECT | 100uF | 20% | 10V |

## MAIN

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C117 | 1-130-495-00 | MYLAR | 0.1uF | 5% | 50V |
| C118 | 1-126-927-11 | ELECT | 2200uF | 20% | 10V |
| C119 | 1-124-903-11 | ELECT | 1uF | 20% | 50V |
| C201 | 1-130-473-00 | MYLAR | 0.0015uF | 5% | 50V |
| C202 | 1-162-302-11 | CERAMIC | 0.0022uF | 20% | 16V |
| C203 | 1-104-664-11 | ELECT | 47uF | 20% | 10V |
| C204 | 1-161-020-11 | CERAMIC | 0.039uF | 10% | 16V |
| C205 | 1-124-902-00 | ELECT | 0.47uF | 20% | 50V |
| C206 | 1-124-903-11 | ELECT | 1uF | 20% | 50V |
| C207 | 1-124-902-00 | ELECT | 0.47uF | 20% | 50V |
| C208 | 1-130-495-00 | MYLAR | 0.1uF | 5% | 50V |
| C209 | 1-130-487-00 | MYLAR | 0.022uF | 5% | 50V |
| C210 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C211 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C212 | 1-124-903-11 | ELECT | 1uF | 20% | 50V |
| C213 | 1-162-301-11 | CERAMIC | 0.0015uF | 30% | 16V |
| C214 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C215 | 1-124-443-00 | ELECT | 100uF | 20% | 10V |
| C216 | 1-124-443-00 | ELECT | 100uF | 20% | 10V |
| C217 | 1-130-495-00 | MYLAR | 0.1uF | 5% | 50V |
| C218 | 1-126-927-11 | ELECT | 2200uF | 20% | 10V |
| C219 | 1-124-903-11 | ELECT | 1uF | 20% | 50V |
| C301 | 1-124-443-00 | ELECT | 100uF | 20% | 10V |
| C302 | 1-124-443-00 | ELECT | 100uF | 20% | 10V |
| C303 | 1-126-233-11 | ELECT | 22uF | 20% | 50V |
| C304 | 1-104-664-11 | ELECT | 47uF | 20% | 10V |
| C305 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C306 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C307 | 1-104-666-11 | ELECT | 220uF | 20% | 10V |
| C308 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C309 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C310 | 1-124-443-00 | ELECT | 100uF | 20% | 10V |
| C311 | 1-124-443-00 | ELECT | 100uF | 20% | 10V |
| C312 | 1-104-664-11 | ELECT | 47uF | 20% | 10V |
| C313 | 1-124-472-11 | ELECT | 470uF | 20% | 10V |
| C314 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C315 | 1-124-472-11 | ELECT | 470uF | 20% | 10V |
| C316 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C317 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C318 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V |
| C319 | 1-124-564-11 | ELECT | 4700uF | 20% | 25V |
| C320 | 1-104-666-11 | ELECT | 220uF | 20% | 16V |
| C321 | 1-124-443-00 | ELECT | 100uF | 20% | 10V |
| C323 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C324 | 1-162-302-11 | CERAMIC | 0.0022uF | 30% | 16V |
| C325 | 1-162-302-11 | CERAMIC | 0.0022uF | 30% | 16V |
| C326 | 1-124-902-00 | ELECT | 0.47uF | 20% | 50V |
| C327 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C328 | 1-162-302-11 | CERAMIC | 0.0022uF | 30% | 16V |
| C329 | 1-126-233-11 | ELECT | 22uF | 20% | 50V |
| C330 | 1-162-306-11 | CERAMIC | 0.01uF | 30% | 16V |
| C331 | 1-124-443-00 | ELECT | 100uF | 20% | 10V |
| C332 | 1-130-481-00 | MYLAR | 0.0068uF | 5% | 50V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C333 | 1-126-233-11 | ELECT | 22uF | 20% | 50V |
| C334 | 1-130-471-00 | MYLAR | 0.001uF | 5% | 50V |
| C335 | 1-130-471-00 | MYLAR | 0.001uF | 5% | 50V |
| C336 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C337 | 1-104-666-11 | ELECT | 220uF | 20% | 10V |
| C338 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C339 | 1-124-907-11 | ELECT | 10uF | 20% | 50V |
| C340 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C341 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C342 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V |
| C343 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V |
| C344 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V |
| C345 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C346 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C347 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C360 | 1-164-159-21 | CERAMIC | 0.1uF | | 50V |
| | | < FILTER > | | | |
| CF1 | 1-760-127-11 | FILTER, CERAMIC | | | |
| CF2 | 1-760-127-11 | FILTER, CERAMIC | | | |
| CF3 | 1-760-127-11 | FILTER, CERAMIC | | | |
| CF4 | 1-579-762-11 | VIBRATOR, CERAMIC | | | |
| | | < ENCAPSULATED COMPONENT > | | | |
| CFT1 | 1-233-885-11 | ENCAPSULATED COMPONENT | | | |
| | | < CONNECTOR > | | | |
| CNP1 | 1-778-310-11 | PLUG, CONNECTOR 2P (MW/LW) | | | |
| * CNP301 | 1-564-507-11 | PLUG, CONNECTOR 4P | | | |
| CNP302 | 1-506-986-11 | PIN, CONNECTOR (PC BOARD) 4P | | | |
| CNP303 | 1-695-346-21 | PIN, CONNECTOR (PC BOARD) 23P | | | |
| * CNP304 | 1-580-159-11 | PIN, CONNECTOR (PC BOARD) 7P | | | |
| CNP305 | 1-564-506-11 | PLUG, CONNECTOR 3P | | | |
| * CNP306 | 1-564-509-11 | PLUG, CONNECTOR 6P | | | |
| * CNP307 | 1-564-508-11 | PLUG, CONNECTOR 5P | | | |
| | | < TRIMMER > | | | |
| CT1 | 1-141-411-11 | CAP, ADJ | 20PF (EXCEPT EE) | | |
| CT2 | 1-141-411-11 | CAP, ADJ | 20PF | | |
| CT3 | 1-141-459-11 | CAP, TRIMMER (SEAL TYPE) | 45PF | | |
| CT4 | 1-141-486-11 | CAP, ADJ | 10PF | | |
| CT5 | 1-141-459-11 | CAP, TRIMMER (SEAL TYPE) | 45PF | | |
| | | < DIODE > | | | |
| D1 | 8-719-991-33 | DIODE | 1SS133T-77 | | |
| D2 | 8-719-991-33 | DIODE | 1SS133T-77 | | |
| D3 | 8-719-050-72 | DIODE | KV1370NT | | |
| D4 | 8-719-050-72 | DIODE | KV1370NT | | |
| D5 | 8-719-050-69 | DIODE | KV1520N | | |
| D6 | 8-719-991-33 | DIODE | 1SS133T-77 | | |
| D7 | 8-719-991-33 | DIODE | 1SS133T-77 | | |
| D8 | 8-719-991-33 | DIODE | 1SS133T-77 | | |
| D301 | 8-719-991-33 | DIODE | 1SS133T-77 | | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| D302 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D303 | 8-719-200-02 | DIODE 10E2 | |
| D304 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D305 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D306 | 8-719-109-89 | DIODE RD5.6ESB2 | |
| D307 | 8-719-923-60 | DIODE MTZJ-T-77-9.1A | |
| D308 | 8-719-991-33 | DIODE 1SS133T-77 | |
| | | < BPF > | |
| FL1 | 1-239-907-21 | FILTER, BAND PASS | |
| | | < IC > | |
| IC1 | 8-759-386-02 | IC TA2008AN | |
| IC2 | 8-759-290-61 | IC BU2615S | |
| IC301 | 8-759-264-71 | IC TA2068N | |
| IC302 | 8-759-540-49 | IC BH3854AFS | |
| IC303 | 8-759-820-22 | IC LA4597 | |
| | | < JACK > | |
| * J301 | 1-537-240-41 | TERMINAL BOARD (CHECKER PIN) (SPEAKER) | |
| | | < COIL > | |
| L2 | 1-411-199-11 | COIL, MW/LW OSC | |
| L3 | 1-410-525-11 | INDUCTOR 220uH | |
| L5 | 1-406-995-11 | COIL, FM OSC (EE) | |
| L5 | 1-409-905-11 | COIL, FM RF (EXCEPT EE) | |
| L6 | 1-406-995-11 | COIL, FM OSC (EE) | |
| L6 | 1-409-904-11 | COIL, FM OSC (EXCEPT EE) | |
| L7 | 1-410-521-11 | INDUCTOR 100uH | |
| L8 | 1-410-521-11 | INDUCTOR 100uH | |
| L9 | 1-416-785-11 | COIL, MW ANTENNA | |
| L10 | 1-416-786-11 | COIL, LW ANTENNA | |
| L12 | 1-408-599-31 | INDUCTOR 4.7uF | |
| L13 | 1-408-599-31 | INDUCTOR 4.7uF | |
| L302 | 1-410-509-11 | INDUCTOR 10uH | |
| | | < TRANSISTOR > | |
| Q1 | 8-729-119-32 | FET 2SK193 | |
| Q2 | 8-729-922-66 | TRANSISTOR 2SC2410SN | |
| Q3 | 8-729-029-94 | TRANSISTOR DTC143TSA | |
| Q4 | 8-729-905-50 | TRANSISTOR DTC343TS | |
| Q5 | 8-729-178-62 | TRANSISTOR 2SC2786-L | |
| Q6 | 8-729-922-66 | TRANSISTOR 2SC2410SN | |
| Q7 | 8-729-029-72 | TRANSISTOR DTC114YSA | |
| Q8 | 8-729-029-72 | TRANSISTOR DTC114YSA | |
| Q9 | 8-729-029-72 | TRANSISTOR DTC114YSA | |
| Q10 | 8-729-029-72 | TRANSISTOR DTC114YSA | |
| Q11 | 8-729-012-83 | FET 2SK679A | |
| Q12 | 8-729-106-07 | FET 2SK514-H | |
| Q13 | 8-729-029-72 | TRANSISTOR DTC114YSA | |
| Q14 | 8-729-029-72 | TRANSISTOR DTC114YSA | |
| Q15 | 8-729-902-80 | TRANSISTOR DTA114YS | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| Q18 | 8-729-902-80 | TRANSISTOR DTA114YS | |
| Q19 | 8-729-902-80 | TRANSISTOR DTA114YS | |
| Q20 | 8-729-922-66 | TRANSISTOR 2SC2410SN | |
| Q301 | 8-729-029-94 | TRANSISTOR DTC143TSA | |
| Q302 | 8-729-902-80 | TRANSISTOR DTA114YS | |
| Q303 | 8-729-281-53 | TRANSISTOR 2SC1815-GR | |
| Q304 | 8-729-230-45 | TRANSISTOR 2SC2458-YGR | |
| Q305 | 8-729-230-45 | TRANSISTOR 2SC2458-YGR | |
| Q306 | 8-729-902-80 | TRANSISTOR DTA114YS | |
| Q307 | 8-729-195-23 | TRANSISTOR 2SA952 | |
| Q308 | 8-729-021-82 | TRANSISTOR 2SD2396K | |
| Q309 | 8-729-230-45 | TRANSISTOR 2SC2458-YGR | |
| Q310 | 8-729-141-83 | TRANSISTOR 2SB1094-LK | |
| Q311 | 8-729-900-65 | TRANSISTOR DTA144ES | |
| Q312 | 8-729-029-72 | TRANSISTOR DTC114YSA | |
| Q313 | 8-729-902-80 | TRANSISTOR DTA114YS | |
| Q314 | 8-729-029-72 | TRANSISTOR DTC114YSA | |
| Q315 | 8-729-902-80 | TRANSISTOR DTA114YS | |
| Q316 | 8-729-029-94 | TRANSISTOR DTC143TSA | |
| Q317 | 8-729-902-80 | TRANSISTOR DTA114YS | |
| | | < RESISTOR > | |
| R1 | 1-247-887-00 | CARBON 220K 5% 1/4W | |
| R2 | 1-249-441-11 | CARBON 100K 5% 1/4W | |
| R3 | 1-249-431-11 | CARBON 15K 5% 1/4W | |
| R5 | 1-249-419-11 | CARBON 1.5K 5% 1/4W | |
| R6 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R7 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R8 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R9 | 1-249-426-11 | CARBON 5.6K 5% 1/4W | |
| R10 | 1-247-887-00 | CARBON 220K 5% 1/4W | |
| R11 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R12 | 1-247-807-11 | CARBON 100 5% 1/4W | |
| R13 | 1-249-425-11 | CARBON 4.7K 5% 1/4W | |
| R14 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R15 | 1-247-863-11 | CARBON 22K 5% 1/4W | |
| R16 | 1-249-403-11 | CARBON 68 5% 1/4W | |
| R17 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R18 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R19 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R20 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R21 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R22 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R23 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R24 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R25 | 1-247-815-11 | CARBON 220 5% 1/4W | |
| R26 | 1-249-415-11 | CARBON 680 5% 1/4W | |
| R27 | 1-249-412-11 | CARBON 390 5% 1/4W | |
| R28 | 1-249-437-11 | CARBON 47K 5% 1/4W | |
| R29 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R30 | 1-247-843-11 | CARBON 3.3K 5% 1/4W | |
| R31 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R32 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |

**MAIN** **POWER**

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R33 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R34 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R35 | 1-247-863-11 | CARBON | 22K | 5% | 1/4W |
| R36 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R37 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R38 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R39 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R40 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| R41 | 1-247-791-11 | CARBON | 22 | 5% | 1/4W |
| R42 | 1-247-883-00 | CARBON | 150K | 5% | 1/4W |
| R43 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R44 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| R45 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R46 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W |
| R47 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R48 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W |
| R49 | 1-247-887-00 | CARBON | 220K | 5% | 1/4W |
| R51 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R52 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R53 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R54 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R101 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R102 | 1-249-404-00 | CARBON | 82 | 5% | 1/4W |
| R103 | 1-247-881-00 | CARBON | 120K | 5% | 1/4W |
| R104 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R105 | 1-247-815-11 | CARBON | 220 | 5% | 1/4W |
| R106 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R107 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R108 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R109 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R110 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R111 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R112 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W |
| R113 | 1-249-420-11 | CARBON | 1.8K | 5% | 1/4W |
| R114 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R115 | 1-249-402-11 | CARBON | 56 | 5% | 1/4W |
| R116 | 1-249-387-11 | CARBON | 3.3 | 5% | 1/4W |
| R117 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W |
| R201 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R202 | 1-249-404-00 | CARBON | 82 | 5% | 1/4W |
| R203 | 1-247-881-00 | CARBON | 120K | 5% | 1/4W |
| R204 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R205 | 1-247-815-11 | CARBON | 220 | 5% | 1/4W |
| R207 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R208 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R209 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R210 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R211 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R212 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W |
| R213 | 1-249-420-11 | CARBON | 1.8K | 5% | 1/4W |
| R214 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R215 | 1-249-402-11 | CARBON | 56 | 5% | 1/4W |
| R216 | 1-249-387-11 | CARBON | 3.3 | 5% | 1/4W |
| R217 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W |
| R301 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W |
| R302 | 1-249-399-11 | CARBON | 33 | 5% | 1/4W |
| R303 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R304 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R305 | 1-249-404-00 | CARBON | 82 | 5% | 1/4W |
| R306 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W |
| R307 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W |
| R308 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R309 | 1-249-401-11 | CARBON | 47 | 5% | 1/4W |
| R321 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R322 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R323 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W |
| R324 | 1-247-807-11 | CARBON | 100 | 5% | 1/4W |
| R325 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R326 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R327 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R328 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W |
| R329 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R330 | 1-249-420-11 | CARBON | 1.8K | 5% | 1/4W |
| R332 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W |
| R333 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R334 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R335 | 1-247-863-11 | CARBON | 22K | 5% | 1/4W |
| R336 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R337 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R338 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R339 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| ⚠R340 | 1-247-733-11 | CARBON | 33 | 5% | 1/2W F |
| R341 | 1-247-815-11 | CARBON | 220 | 5% | 1/4W |
| R342 | 1-249-430-11 | CARBON | 12K | 5% | 1/4W |
| R343 | 1-260-076-11 | CARBON | 10 | 5% | 1/2W |
| R345 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W |

< TRANSFORMER >

| | | |
|---|---|---|
| T301 | 1-433-268-00 | TRANSFORMER, BIAS OSCILLATOR |

< VIBRATOR >

| | | |
|---|---|---|
| X1 | 1-760-130-11 | VIBRATOR, CRYSTAL (75kHz) |

**********

| | | |
|---|---|---|
| * | 1-670-425-11 | POWER BOARD |
| | | ********** |
| | 1-533-217-31 | HOLDER, FUSE |
| | 7-685-663-79 | SCREW +BVTP 4X16 TYPE2 N-S |

< CAPACITOR >

| | | | | |
|---|---|---|---|---|
| C901 | 1-164-159-21 | CERAMIC | 0.1uF | 50V |
| C902 | 1-164-159-21 | CERAMIC | 0.1uF | 50V |
| C903 | 1-164-159-21 | CERAMIC | 0.1uF | 50V |
| C904 | 1-164-159-21 | CERAMIC | 0.1uF | 50V |
| C905 | 1-164-159-21 | CERAMIC | 0.1uF | 50V |

The components identified by mark ⚠or dotted line with mark. ⚠are cr itical for saf ety. Replace only with part number specified.

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C906 | 1-124-564-11 | ELECT | 4700uF | 20% | 25V |
| | | < CONNECTOR > | | | |
| * CNP901 | 1-564-518-11 | PLUG, CONNECTOR 3P | | | |
| CNP902 | 1-580-230-31 | PIN, CONNECTOR (PC BOARD) 2P | | | |
| | | < DIODE > | | | |
| D901 | 8-719-902-17 | DIODE U15G | | | |
| D902 | 8-719-902-17 | DIODE U15G | | | |
| D903 | 8-719-902-17 | DIODE U15G | | | |
| D904 | 8-719-902-17 | DIODE U15G | | | |
| D905 | 8-719-991-33 | DIODE 1SS133T-77 | | | |
| | | < FUSE > | | | |
| ⚠F901 | 1-532-284-00 | FUSE, TIME-LAG (T630mAL/250V) | | | |
| ⚠F902 | 1-576-107-11 | FUSE, TIME-LAG (T3.15AL/250V) | | | |
| | | < RESISTOR > | | | |
| R901 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| | | < TRANSFORMER > | | | |
| ⚠T901 | 1-431-972-11 | TRANSFORMER, POWER | | | |
| ********** | | | | | |
| * | 1-670-428-11 | REC SW BOARD | | | |
| | | ********** | | | |
| | | < CONNECTOR > | | | |
| * CNP311 | 1-580-165-11 | PIN, CONNECTOR (PC BOARD) 4P | | | |
| | | < SWITCH > | | | |
| SW301 | 1-762-565-11 | SWITCH, SLIDE (REC/PB) | | | |
| ********** | | | | | |
| | | MISCELLANEOUS | | | |
| | | ********** | | | |
| ⚠3 | 1-575-651-21 | CORD, POWER | | | |
| 62 | 1-783-371-11 | WIRE, PARALLEL | | | |
| 103 | 1-452-732-11 | MAGNET | | | |
| 112 | 1-769-824-11 | WIRE (FLAT TYPE) (16 CORE) | | | |
| ⚠353 | 8-848-483-05 | PICK-UP, OPTICAL KSS-213C | | | |
| ⚠F901 | 1-532-284-00 | FUSE, TIME-LAG (T630mAL/250V) | | | |
| ⚠F902 | 1-576-107-11 | FUSE, TIME-LAG (T3.15AL/250V) | | | |
| HE301 | 1-543-558-11 | HEAD, ERASE | | | |
| HRP301 | 1-543-964-12 | HEAD, MAGNETIC (RECORD/PLAYBACK) | | | |
| M301 | X-3365-538-1 | MOTOR ASSY (CAPSTAN/REEL) | | | |
| M701 | X-2625-769-1 | GEAR ASSY (MB) (RP), MOTOR (SLED) | | | |
| S301 | 1-571-556-11 | SWITCH, LEAF (MD POWER) | | | |
| S302 | 1-571-556-11 | SWITCH, LEAF (MD PLAY) | | | |
| SP301 | 1-505-395-21 | SPEAKER (LOUD) (10cm) (L-CH) | | | |
| SP302 | 1-505-395-21 | SPEAKER (LOUD) (10cm) (R-CH) | | | |
| SW701 | 1-692-960-11 | SWITCH, PUSH (1 KEY) (CD DOOR) | | | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| ⚠T901 | 1-431-972-11 | TRANSFORMER, POWER | |
| ********** | | | |
| | | ACCESSORIES & PACKING MATERIALS | |
| | | ********** | |
| | 1-501-843-11 | ANTENNA, LOOP (MW/LW) | |
| ⚠ | 1-770-019-11 | ADAPTOR, CONVERSION PLUG 3P (UK) | |
| * | 3-704-285-01 | BAG (STANDARD), PROTECTION (EXCEPT SP) | |
| | 3-862-981-11 | MANUAL, INSTRUCTION (ENGLISH,SPANISH) | (EXCEPT IT) |
| | 3-862-981-21 | MANUAL, INSTRUCTION (FRENCH,GERMAN) | (AEP,SP) |
| | 3-862-981-31 | MANUAL, INSTRUCTION (DUTCH,PORTUGUESE) | (AEP) |
| | 3-862-981-41 | MANUAL, INSTRUCTION (ITALIAN) (IT) | |
| | 3-862-981-51 | MANUAL, INSTRUCTION (RUSSIAN) (EE) | |
| | 4-557-142-03 | CARD, WARRANTY (A5 SIZE) (AEP,EE) | |
| | 4-991-047-01 | LID, BATTERY CASE (FOR RMT-C107A/C107AD) | |
| | 8-917-638-90 | REMOTE COMMANDER (RMT-C107AD) | (AEP,UK,IT) |
| | 8-917-639-90 | REMOTE COMMANDER (RMT-C107A) (EE,SP) | |
| ********** | | | |
| | | ********** | |
| | | HARDWARE LIST | |
| | | ********** | |
| #1 | 7-685-647-79 | SCREW +BVTP 3X10 TYPE2 N-S | |
| #2 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S | |
| #3 | 7-685-663-79 | SCREW +BVTP 4X16 TYPE2 N-S | |
| #4 | 7-685-649-79 | SCREW +BVTP 3X14 TYPE2 N-S | |
| #5 | 7-685-860-04 | SCREW +BVTT 2.6X4 (S) | |
| #6 | 7-685-862-09 | SCREW +BVTT 2.6X6 (S) | |
| #7 | 7-685-851-04 | SCREW +BVTT 2X4 (S) | |
| #8 | 7-685-861-01 | SCREW +BVTT 2.6X5 (S) | |
| #9 | 7-685-781-09 | SCREW +PTT 2X4 (S) | |
| #10 | 7-685-104-19 | SCREW +P 2X6 TYPE2 NON-SLIT | |
| #11 | 7-685-648-79 | SCREW +BVTP 3X12 TYPE2 N-S | |
| #12 | 7-628-254-05 | SCREW +PS 2.6X5 | |

The components identified by mark ⚠or dotted line with mark. ⚠are critical for safety. Replace only with part number specified.

9-923-388-12

**Sony Corporation**
**Personal A&V Products Company**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